

Volume

#

R0335

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BOOK A-335

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190 }



WE, _____ and _____
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 }



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Township 10 S., Range 23 E.

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PRELIMINARY OATHS OF ASSISTANTS.

We, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this
day of , 190 }



We, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this
day of , 190 }



We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this
day of , 190 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this
day of , 190 }



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INDEX DIAGRAM.

Township 10 S., Range 24 E.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chairman.*

....., *Chairman.*

Subscribed and sworn to before me this }
day of , 190 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this }
day of , 190 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this }
day of , 190 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 190 }



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Township 9 + 10 S., Range 25 E.

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PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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p. 83.*

*Allotment No. 269
Tr. 21 Granite Colorado.
p. 107*

*Allotment No. 269
Tr. 21 Granite Colorado.
p. 95*

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
 day of _____, 190 }



WE, _____ and _____
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
 day of _____, 190 }



WE, _____ and _____
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
 day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
 day of _____, 190 }



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PRELIMINARY OATHS OF ASSISTANTS.

We, and
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
 day of , 190 }



We, and
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
 day of , 190 }



We, and
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
 day of , 190 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
 day of , 190 }



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INDEX DIAGRAM.

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PRELIMINARY OATHS OF ASSISTANTS.

We, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



We, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the earth, dig out and turn up ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in running, according to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Solemnly and sworn to before me this _____
day of _____, 190_____

[Handwritten Signature]

We, _____ and _____, do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Solemnly and sworn to before me this _____
day of _____, 190_____

[Handwritten Signature]

We, _____ and _____, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Solemnly and sworn to before me this _____
day of _____, 190_____

[Handwritten Signature]

I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

_____, Flagman.

Solemnly and sworn to before me this _____
day of _____, 190_____

[Handwritten Signature]

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INDEX DIAGRAM.

Township 5 S., Range 19 E.

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PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain, when so required, and plumb the tally pins, either by sticking or dropping the same; that we will project the transits to all suitable objects, and the true lengths of all lines that we assist in running, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

..... *Chairman,*

..... *Chairman,*

which is dated the 1st day of April, 190 _____)

A. M. C. 190 _____)

SERIAL
BOOK

We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

..... *Moundman,*

..... *Moundman,*

which is dated and sworn to before me this)

A. M. C. 190 _____)

SERIAL
BOOK

We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

..... *Axman,*

..... *Axman,*

which is dated and sworn to before me this)

A. M. C. 190 _____)

SERIAL
BOOK

I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

..... *Flagman,*

which is dated and sworn to before me this)

A. M. C. 190 _____)

SERIAL
BOOK

Filed Dec 17/04

4-679.

" A "

BOOK A-335

FIELD NOTES

RE
OF THE SURVEY OF THE

A-L-1-0-T-M-E-N-T N-0. 2-6-5, N-0. 1-6, A-T-C-H-I-E

in

Township No. 10 South,

Range No. 22 East,

Of the Salt Lake Base and Meridian,

in the state of Utah,

AS SURVEYED BY

Alfredo R. Talamantes and Harvey D. Heist, United States Deputy Surveyor, S

ler his Contract No. 292, dated November 3, 1905

vey commenced December 5, 1905

vey completed December 6, 1905

NAMES AND DUTIES OF ASSISTANTS.

William H. Dunn, Chainman.

Vinson F. Davis, Chainman.

Martin Rasmussen, Moundman.

John Burt, Flagman.

BOOK A-335

INDEX DIAGRAM.

Township

Range

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PRELIMINARY OATHS OF ASSISTANTS.

WE, William H. Dunn

and Vinson F. Davis

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of allotments No. 265, No. 16 Atchie, No. 266, No. 19, War-Atze, No. 278, No. 31, McCook, No. 270, No. 23, Pantaloan, No. 269, No. 22, Weaver Ignatio, No. 267, No. 20, Jimmy Colorow and No. 268, No. 21, Frank Colorado, situated in T. 10 S., R. 22, 23, 24 & 25 E. and T. 9 S., R. 25 E. of the Salt Lake Base and Meridian, Utah.

William H. Dunn, Chainman.
Vinson F. Davis, Chainman.

Subscribed and sworn to before me this 4th.

day of December, 1905



Alfredo R. Talamantes

U. S. Deputy Surveyor.

WE, I. Martin Rasmussen

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of allotments No. 265, No. 16, Atchie, No. 266, No. 19, War-Atze, No. 278, No. 31, McCook, No. 270, No. 23, Pantaloan, No. 269, No. 22, Weaver Ignatio, No. 267, No. 20, Jimmy Colorow and No. 268, No. 21, Frank Colorado, situated in T. 10 S., R. 22, 23, 24 & 25 E., and T. 9 S., R. 25 E. of the Salt Lake Base and Meridian, Utah.

Martin Rasmussen, Moundman.

Moundman.

Subscribed and sworn to before me this 4th.

day of December, 1905



Alfredo R. Talamantes

U. S. Deputy Surveyor

WE, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Axman.

Axman.

Subscribed and sworn to before me this

day of , 1905



I, J. John Burt, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of allotments N. 265, No. 16, Atchie, No. 266, No. 19, War-Atze, No. 278, No. 31, McCook, No. 270, No. 23, Pantaloan, No. 269, No. 22, Weaver Ignatio, No. 267, No. 20, Jimmy Colorow and No. 268, No. 21, Frank Colorado, situated in T. 10 S., R. 22, 23, 24 and 25 E. and T. 9 S., R. 25 E. of the Salt Lake Base and Meridian, Utah.

Subscribed and sworn to before me this 4th.

day of December, 1905



Alfredo R. Talamantes

U. S. Deputy Surveyor.

Resurvey of allotment No. 265, No. 16, Atchie.

Survey commenced December 5, 1905 and executed with a W. & L. E. Gurley, light mountain transit, , with solar attachment. The horizontal limb is provided with two double verniers, placed opposite to each other, reading to single minutes of arc, which is also the least count of verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, Nov. 23 -- 1905

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

At a stake, set 10.00 chs. S. from cor. No. 1, of allotment No. 265, No. 16, Atchie, which is a sandstone, 28x28x10 ins. above ground, marked A Cor. No. 1 on E. face, with mound of stone E. of cor. (it being impossible to make an observation at the cor. on account of sandstone bluffs), in approximate latitude $39^{\circ}58'N.$, longitude $109^{\circ}27'W.$. I set off $39^{\circ}58'N.$ on lat. arc, $22^{\circ}19'S.$ on decl. arc, and at 3h. 51m., p.m., l.m.t., determine with the solar a meridian, and mark a point thereof, on a stone, firmly set in the ground, 5 chs. N. of my station.

December 5, 1905.

December 6: At 2h. 24m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg, driven in the ground, 5 chs. N. of my station.

At 7h. 30m., a.m., I lay off the azimuth of Polaris, $1^{\circ}34'$ to the east, and mark the meridian, thus determined by cutting a small groove in the stone set last evening,

Resurvey of allotment No. 265, No. 16, Atchie.

CHAINS

on which the meridian falls 0.3 ins. west of the mark determined by the solar.

At 7h.51m., a.m., l.m.t. I set off $59^{\circ}58'N.$ on lat. arc, $22^{\circ}23'S.$ on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $0'16''$ east and west of the meridian established by the Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h.15m., a.m., is $N.16^{\circ}18'W.$, the angle thus determined gives the mag. decl. $16^{\circ}18'E.$

Preliminary to beginning the survey of this allotment, I set flags at all the cors. of the allotment and as the view between cors. is unobstructed, I get the courses of the lines between cors. without running random lines.

I begin at cor. No. 1, upon which I add the mark "Beg.", cor. now marked A Beg. Cor. No. 1 on E. face,
No bearing objects available
Thence $N.54^{\circ}05'E.$

Through dense undergrowth.

1.53 Left bank of White River, bears N. and S.

Course of river, N.

8.73 Right bank of White River, bears N. and S.

13.75 To cor. No. 2, which is a sandstone, $12 \times 11 \times 2\frac{1}{2}$ ins. above ground, marked A (Cor. No. 2, on S. face, $\frac{1}{2}$ ft. high), I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.

No bearing objects available.

Thence $S.30^{\circ}55'E.$

Continue the measurement,

34.15 To cor. 3, identical with Bitter Creek Location Monument No. 1, which is a sandstone boulder, in place, $8 \times 7 \times 4$ ft. above ground, with cross at exact cor. point, marked

Resurvey of allotment No. 265, No. 1⁶, Atchie.

CHAINS	B.C.L.M. No. 1, and A.Cor. No. 5, on W. side of cross, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Pits impracticable.
	No bearing objects available.
35.18	Thence S. 54° 05' W. Continue the measurement, Intersect line bet. secs. 2 and 11, T. 10 S., R. 22 E., 6.05 chs S. 89° 59' W., of the witness $\frac{1}{4}$ sec. cor. bet. secs. 2 and 11, which is a sandstone, 12x12x5 ins. above ground, properly marked and witnessed.
40.00	To $\frac{1}{2}$ mile cor. Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{2}$ mile cor., marked A $\frac{1}{2}$ M on N.W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.W. of cor. Pits impracticable.
	No bearing objects available.
42.96	Right bank of White River, bears E. and W. Course of river W.
45.54	Left bank of river, bears E. and W.
47.90	To cor. No. 4, which is a sandstone, 21x8x8 ins. above ground marked A.Cor. No. 4 on N. face, with no mound of stone, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.
	No bearing objects available.
49.71	Thence N. 30° 55' W. Continue the measurement, Left bank of White River, bears E. and W. Course of river, W.
54.23	Right bank of White River, bears E. and W.
56.59	Intersect the line bet. secs. 2 and 11, T. 10 S., R. 22 E., 20.81 chs., S. 89° 59' W. of the witness $\frac{1}{4}$ sec. cor. bet. secs. 2 and 11, heretofore described.
63.08	Right bank of White River, bears N. and S. Course of river N.
65.91	Left bank of White River, bears N. and S.
68.30	To cor. No. 1, the place of beginning,

Resurvey of allotment No. 265, No. 1^E, Atchie.

CHAINS

1000 ft. dist., 1000 ft. width.

Land, bottoms.

Soil, loam, 2nd. rate.

Timber, scattering cottonwoods along river bank.

Dense undergrowth on 50.47 chs.

Note:

The river being frozen over, it was possible to chain across on the ice.

December 6, 1905.

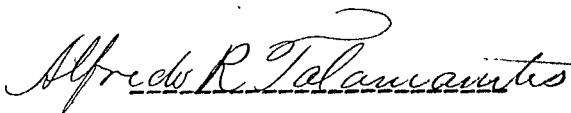
GENERAL DESCRIPTION

This allotment lies in the bottoms along White River and the soil is a rich black loam, capable of producing abundant crops with irrigation.

The surface of the ground is covered with a dense growth of greasewood, rose, sage and rabbit brush and willows, while a scattering growth of cottonwood timber is found along the river banks.

There is no settler or any improvements found on this allotment and there are no indications that there ever have been.

There are no indications of mineral found on this survey.



U.S. Deputy Surveyor.

-5-

BOUNDARIES OF ALLOTMENT NO 265 NO 16 ATCHIE

T.10 S., R. 22 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Course,	Distance,	Latitudes,		Departures.	
		North	South	East	West.
N.54° 05'E.	13.75	8.06	.....	11.13	.....
S.30° 55'E.	20.40	.....	17.50	10.48	.....
S.54° 05'W.	13.75	.....	8.06	.....	11.13
N.30° 55'W.	20.40	17.50	10.48
Totals		25.56	25.56	21.61	21.61.

Total area of claim 27.94 acres.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and laying the lines and corners described in the foregoing field notes of the survey of _____, giving the respective capacities in which they acted:

_____, *Chairman*.
 final affidavits see book "G", Allotment No. 268, No. 21, *Chairman*.
 Frank Colorado, *Moundman*.
 _____, *Moundman*.
 _____, *Axman*.
 _____, *Axman*.
 _____, *Flagman*.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all parts or portions of the _____, of the _____ meridian, _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been made in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the monuments established, according to the instructions furnished by the United States Surveyor General for _____.

final affidavits see book "G", Allotment No. 268, No. 21, *Chairman*.
 Frank Colorado, *Chairman*.
 _____, *Moundman*.
 _____, *Moundman*.
 _____, *Axman*.
 _____, *Axman*.
 _____, *Flagman*.

scribed and sworn to before me this _____, _____, 190 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

United States Deputy Surveyor

whereby I swear that, in pursuance of a contract received from _____, bearing date _____, I have well, faithfully, and truly, in proper person, and to strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavit see back "D". Allotment No.265, No.16 Frank Coltrado.

of the _____
meridian, in the _____ of _____, which are represented by the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Signed by me _____, and sworn to before me }
this _____ day of _____, 1905 }

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May, 10, 1905

The foregoing field notes of the Survey of Allotment No.265, No.16, Atchie, in Tp. No.10 South, Range No.22 East of the Salt Lake Meridian, Utah.

Approved by Alfred N. Tolman and Harvey T. Heist.
Under the date of November 3, 1905, having been
carefully examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____ has been correctly copied from the original notes on file in this office.

United States Surveyor General

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4-079.

"B"

BOOK A-335

FIELD NOTES

RE
OF THE SURVEY OF THE
AA-L-L-O-T-M-E-N-T N-0. 2-7-8 , N-0. 3-1 , N^C-C-0-0-K

in

Township No. 10 South,

Range No. 23 East,

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Alfredo R. Talamantez and Harvey D. Heint United States Deputy Surveyors

their Contract No. 222, dated November 3, 1905.

Survey commenced December 8, 1905

Survey completed December 9, 1905.

NAMES AND DUTIES OF ASSISTANTS.

William H. Dunn, Chainman

Vinson F. Davis, "

Martin Rasmussen Moundman

John Burt Flagman

For preliminary affidavits see book "A". Allotment No. 265, No.

16 "Atchie".

Volume

#

R0335

BOOK A-335

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

_____, Chainman.

_____, Chainman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 _____



Resurvey of allotment No. 278. No. 31, McCook.

CHAINS

Survey commenced, December 8, 1905, and executed with the instrument described in book "A", of this survey.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations, made during a.m. and p.m. hours with a meridian determined by observations on Polaris, I proceed as follows: At cor. No. 1 of allotment No. 278, No. 31, McCook, which is also White River Location Monument No. 3, which is a sandstone boulder 12x10x10 ft. above ground, marked with a cross (X), at exact cor. point and W R L M No 3 McC Beg Cor No 1 on S. side of cross, witnessed with a mound of stone S. of cor., the $\frac{1}{4}$ sec. cor. bet. secs. 12 and 13, T. 10 S., R. 23 E., which is a sandstone, 12x6x6 ins. above ground, marked and witnessed as described by the surveyor general, bears S. $51^{\circ}04'W.$, 13.58 chs. dist., in approximate latitude $39^{\circ}57'N.$ longitude $109^{\circ}19'W.$

At 3h. 52m., p.m., l.m.t., I set off $39^{\circ}57'N.$ on lat. arc, $22^{\circ}39'S.$ on decl. arc, and determine a meridian with the solar and mark a point thereof on a stone, firmly set in the ground, 5 chs. N. of the cor.

December 8, 1905.

December 9: At 2h. 12m., a.m., l.m.t., I observe Polaris at western elongation, in accordance with Manual of Instructions and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7h. 30m., a.m.^{int}, I lay off the azimuth of Polaris, $1^{\circ}34'$ to the east, and mark the meridian, thus determined by cutting a small groove in the stone, set last evening, on which the meridian falls 0.3 ins. west of the mark determined by the solar.

At 7h. 52m., a.m., l.m.t., I set off $39^{\circ}57'N.$ on lat. arc, $22^{\circ}43'S.$ on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already

Resurvey of allotment No. 278, No. 31, McCook.

CHAINS	<p>set 5 chs. N. of my station; this mark falls 0.3 ins. west of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about 0'16" east and west of the meridian established by the Polaris observations, therefore, I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the true meridian at 8h.15m., a.m. is N.16°18'W., the angle thus determined, gives the mag. decl. 16°18'E.</p> <p>Preliminary to beginning the survey of this allotment, I set flags at all the cors. of the allotment and as the view between cors. is unobstructed, I obtain the courses of the lines between cors. without running random lines. I begin at cor. No. 1, already described</p> <p style="text-align: center;">Thence S. 38°55'E.</p> <p>Through dense undergrowth.</p>
3.00	Right bank of White River, bears N. and S. Course of river S.
5.27	Left bank of White River, bears N. and S.
10.94	Intersect line bet. secs. 12 and 13, T. 10 S.R. 23 E., 17.44 chs. N. 89°56'E. of the $\frac{1}{4}$ sec. cor. bet. secs. 12 and 13, heretofore described.
14.68	To cor. No. 2., which is a sandstone, 16x12x5 ins. above ground, marked McC (Cor No 2 on W. face, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. No bearing objects available.
	Thence S. 36°03'W.; continue the measurement.
39.65	To witness cor. to $\frac{1}{2}$ mile cor. Set a sandstone, 28x12x5 ins., 21 ins. in the ground, for witness cor. to $\frac{1}{2}$ mile cor., marked WC McC $\frac{1}{2}$ M, on N.W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.W. of cor. Pits impracticable.

Resurvey of allotment No. 278, No. 31, McCook.

CHAINS	No bearing objects available.
40.00	Point for $\frac{1}{2}$ mile cor. falls into a wash, course N.W. and was not set.
44.77	To cor. No. 3, which is a sandstone, 24x12x8 ins. above ground, marked McC C Cor. No. 3, on N. face, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. No bearing objects available.
45.22	Thence N. $38^{\circ}56'W.$; continue the measurement. Left bank of White River, bears N.E. and S.W. Course of river, S.W.
45.98	Shore line of an island in the river, bears N.E. and S.W. Size of island, about 1 acre.
47.12	Leave island, shore line bears N.E. and S.W.
48.97	Right bank of White River, bears N.E. and S.W.
59.45	To cor. No. 4, which is a sandstone, 14x14x12 ins. above ground, marked McC C Cor. No. 4 on E. face, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable. No bearing objects available.
78.05	Thence N. $36^{\circ}04'E.$; continue the measurement. Intersect line bet. secs. 12 and 13, T. 10 S., R. 23 E., 4.35 chs. E. of the $\frac{1}{4}$ sec. cor. bet. secs. 12 and 13, heretofore described.
80.00	To 1 mile cor. Set a sandstone, 24x11x3 ins., 18 ins. in the ground, for 1 mile cor., marked Mc C 1 M., on S.E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.E. of cor. Pits impracticable. No bearing objects available.
	Land, bottoms. Soil, loam, 2nd. rate. Timber, scattering cottonwoods along river bank. Dense undergrowth on 75.12 chs. Note: Distance across the river was determined by chaining across on the ice, the river being frozen over.

Resurvey of allotment No. 278, No. 31, McCook

CHAINS	2nd. Mile.
	N. 36° 04' E. Through dense undergrowth.
9.59	To cor. No. 1, the place of beginning, enclosing an area of ✓ 42.721 acres.
	Land, bottoms.
	Soil, loam, 2nd. rate.
	Timber, scattering cottonwoods along river bank.
	Dense undergrowth on 9.59 chs.

December 9, 1905.

General Description

This allotment lies in the bottoms along White River and the soil is loam, capable of producing crops with irrigation.

The land is covered with a dense growth of greasewood, rose, sage and rabbit brush and willows.

The following improvements were found on this survey: and the bearing from cor. No. 1, was as follows:
A log cabin, 12x12 ft., bears S.30°04'W., 13.20 chs. dist.,

uninhabited at time of survey.

A log cabin, 12x12 ft., bears S.27°34'W., 9.97 chs. dist.,
uninhabited at time of survey.

A log cabin, 12x12 ft., bears S.25°34'W., 10.54 chs. dist.,
uninhabited at time of survey.

A log cabin, 12x12 ft., bears S.20°04'W., 7.04 chs. dist.,
uninhabited at time of survey.

A circular pole corral, 2.00 chs. diam., bears S.0°26'W.,
3.59 chs. dist.

There is no land under cultivation and no settler living upon this allotment at time of survey.

There are no indications of mineral on this survey.

Alfredo R. Palmaire
U. S. Deputy Surveyor.

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BOUNDARIES OF MCCOOK'S ALLOTMENT, T. 10 S., R.23 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Latitudes, Departures.

Course	Distance	North,	South	East	West.
S.38° 55'E.	14.68	.....	11.42	9.22	.....
S.36° 03'W.	30.09	.....	24.33	.....	17.71
N.38° 56'W.	14.68	11.42	.....	.....	9.23
N.36° 04'E.	31.14	24.36	.....	17.74	.....
	X	35.78	35.75	26.96	26.94
		35.75		26.94	

Error in Lat.

.03

.02 Error in dep.

Total area of claim 42.72 acres.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and laying the lines and corners described in the foregoing field notes of the survey of _____

ng the respective capacities in which they acted:

final affidavits see book "G" Allotment No. 268, "No. 21", Chainman.
 Frank Colorado", _____, Chainman.
 _____, Moundman.
 _____, Moundman.
 _____, Axman.
 _____, Axman.
 _____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all parts or portions of the _____

of the _____
 meridian, _____ of _____, which are represented
 e foregoing field notes as having been surveyed by him and under his direction; and that said survey
 been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 r monuments established, according to the instructions furnished by the United States Surveyor
 ral for _____

final affidavits see book "G" Allotment No. 268, "No. 21", Chainman.
 Frank Colorado", _____, Chainman.
 _____, Moundman.
 _____, Moundman.
 _____, Axman.
 _____, Axman.
 _____, Flagman.

cribed and sworn to before me this _____ }
 lay of _____, 190 }

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 O SEAL O
 OOOOOOG

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____, day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.
For final affidavit see book "G" Allotment No. 268, "No 21
Frank Colorado".

..... of the
..... meridian, in the of which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor,

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 16, 1906.

The foregoing field notes of the survey of Allotment No. 278, No. 31 McCook, in Township No. 10 South, Range No. 23 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey J. Heist, their contract No. 292, dated November 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas E. Mull
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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Filed April 1906

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" C "
BOOK A-335

FIELD NOTES

RE
OF THE SURVEY OF THE

A-L-L-O-T-M-E-N-T N-0. 2-6-6, N-0. 1-9, W-A-R A-T-Z-E

in

Township No. 10 South,

Range No. 24 East,

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Alfredo R. Talamantes and Harvey D. Heist, United States Deputy Surveyors
their
under his Contract No. 292, dated November 3, 1905

Survey commenced December 11, 1905.

Survey completed December 12, 1905.

NAMES AND DUTIES OF ASSISTANTS.

William H. Dunn, Chainman

Vinson F. Davis, "

Martin Rasmussen Moundman

John Burt, Flagman

For preliminary affidavits see book "A", Allotment No. 265,

"No. 16 Atchie".

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Volume

#

R0335

BOOK A-335

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainma

, Chainma

Subscribed and sworn to before me this _____ }
 day of _____, 190 }


WE, _____ and _____
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundme

, Moundme

Subscribed and sworn to before me this _____ }
 day of _____, 190 }


WE, _____ and _____
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axme

, Axme

Subscribed and sworn to before me this _____ }
 day of _____, 190 }


I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

, Flagma

Subscribed and sworn to before me this _____ }
 day of _____, 190 }


Resurvey of allotment No. 266, No. 19, War-Atze.

CHAINS

Survey commenced December 11, 1905, and executed with the instrument described in book "A" of this survey. I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during a.m. and p.m. hours, with a meridian determined by observations on Polaris, I proceed as follows:

Near my camp, at the cor. of secs. 23-24-25 and 26, Tp. 9 S., R. 24 E., which is a sandstone, 10x6x4ins. above ground, marked and witnessed as described by surveyor general, latitude $40^{\circ}01'N.$, longitude $109^{\circ}13'W.$, I set off $40^{\circ}01'N.$ on lat. arc, $22^{\circ}50'S.$ on decl. arc, and at 3h. 53m., p.m., l.m.t., determine with the solar a meridian, and mark a point on a stone, firmly set in the ground, 5 chs. N. of the cor.

December 11, 1905.

December 12: At 2h. 01m., a.m., lmt., I observe Polaris at western elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a peg driven in the ground, 5 chs. N. of my station.

At 7h. 30 m., a.m., I lay off the azimuth of Polaris, $1^{\circ}34'$ to the east, and mark the meridian, thus determined, by cutting a small groove in the stone, set last evening, on which the meridian falls 0.3 ins. east of the meridian determined by the solar.

At 7h. 54m., a.m., l.m.t., I set off $40^{\circ}01'N.$ on lat. arc, $22^{\circ}59'S.$ on decl. arc, and mark a point in the meridian determined with the solar, by a cross on the stone already set 5 chs. N. of my station; this mark falls 0.3 ins. east of the meridian established by the Polaris observation. The solar apparatus, by p.m. and a.m. observations, defines positions for meridians, respectively about $0'16''$ west and east of the meridian established by the Polaris observations; therefore I conclude that the adjustments of

Resurvey of allotment No. 266, No. 19 War-Atze.

CHAINS	<p>the instrument are satisfactory.</p> <p>The magnetic bearing of the true meridian, at 8h.15m., a.m. is N.$16^{\circ}18'W.$; the angle thus determined gives the mag. decl.$16^{\circ}18'E.$</p> <p>Preliminary to beginning the survey of this allotment, I set flags at all the cors. of the allotment and as the view between the cors. is unobstructed, I get the courses of the lines between the cors. without running random lines.</p> <p>At 1h.54m., p.m., l.m.t., I set off $39^{\circ}59'N.$ on lat.arc, $23^{\circ}03'S.$ on decl.arc, and determine a meridian with the solar, at cor. No. 1, of allotment No. 266, No. 19, War-Atze, which is also Wagon Ax Location Monument, which is a sandstone boulder, 9x5x4 ft. above ground, marked with a cross, at exact cor. point and W.A.L.M. on S.E. side of cross. In addition, I mark W.A.Beg.Cor.No.1, on S.E. side of cross and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.E. of cor.</p> <p>From the cor., a cross on the west face of a sandstone boulder, 5 ft. long, 5 ft. wide and 4 ft. high, bears S.$83^{\circ}47'E.$, 21.5 ft. dist., marked E B O . W. A L. M. W. A. Beg. Cor. No. I.</p> <p>Thence $13^{\circ}06'W.$</p> <p>Through dense undergrowth.</p> <p>38 Telephone line, from Dragon to Vernal, bears N.E. and S.W.</p> <p>1.56 Toll road from Dragon to Vernal, bears N.E. and S.W.</p> <p>12.56 Right bank of White River, bears E. and W.</p> <p>Course of River, W.</p> <p>14.53 Left bank of White River, bears E. and W.</p> <p>16.67 To cor. No. 2, which is a sandstone, $21 \times 12 \times 3$ ins. above ground, marked W A (Cor. No. 2 on N.E. face, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.E. of cor. Pits impracticable.</p> <p>No bearing objects available.</p> <p>Thence S.$76^{\circ}54'E.$</p>
--------	---

Resurvey of allotment No. 266, No. 1⁹, War-Atze.

CHAINS

40.00

Continue the measurement,
To $\frac{1}{2}$ mile cor.

Set a sandstone, 15x10x6 ins., 10 ins. in the ground, for
 $\frac{1}{2}$ mile cor., marked W A $\frac{1}{2}$ M on N. face, and raise a mound
of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

No bearing objects available.

40.71

To cor. No. 3, which is a sandstone, 20x8x8 ins. above ground,
marked W A (Cor. No. 3 on N.W. face, with no mound, I raise a
mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.W. of cor.

Pits impracticable.

From this cor. the witness $\frac{1}{4}$ sec. cor. bet. secs. 1 and 2,
T. 10 S., R. 24 E., which is a sandstone, 10x5x5 ins. above
ground, marked and witnessed as described by the surveyor
in general bears N. $68^{\circ} 30' E.$ 1.68 chs. dist.

Thence N. $12^{\circ} 52' E.$

Continue the measurement.

41.78

Left bank of White River, bears E. and W.

Course of river, W.

42.78

Right bank of White River, at bend, bearing, N.E. and N.W.

47.70

Intersect line bet. secs. 1 and 2, T. 10 S., R. 24 E., N. $0^{\circ} 04' W.$

6.19 chs. from the witness $\frac{1}{4}$ sec. cor. bet. secs. 1 and 2,
heretofore described.

57.69

To cor. No. 4, which is a sandstone, 26x12x4 ins. above ground
marked W A (Cor. No. 4 on S.W. face, with no mound, I raise a
mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.W. of cor.

Pits impracticable.

From this cor., a deserted log cabin, 12x12 ft. sq., bears
S. $76^{\circ} 30' W.$, 5.00 chs. dist.

Thence N. $77^{\circ} 37' W.$

Continue the measurement.

59.98

Intersect the line bet. secs. 1 and 2, T. 10 S., R. 24 E.,
16.42 chs., N. $0^{\circ} 04' W.$, of the witness $\frac{1}{4}$ sec. cor. bet. secs.
1 and 2, heretofore described.

78.05

Toll road from Dragon to Vernal, bears N.E. and S.W.

80.00

To 1 mile cor.

Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for
1 mile cor., marked W A 1 M on S. face, and raise a mound of

Resurvey of allotment No. 266, No. 19, War-Atze.

CHAINS

stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Pits impracticable.

No bearing objects available.

Land, bottoms.

Soil, sandy loam, 2nd. rate.

No timber.

Dense undergrowth on 77.03 chs.

Note:

White river being frozen over at the time of survey

it was possible to chain across on the ice.

2nd. Mile.

From the 1 mile cor., I run N. $77^{\circ}37'W.$

Through dense undergrowth.

1.02 Telephone line, from Dragon to Vernal, bears N.E. and S.W.

1.67 To cor. No. 1, the place of beginning, enclosing an area of 40.395 acres.

Land, bottoms.

Soil, sandy loam, 2nd. rate.

No timber.

Dense undergrowth on 1.67 chs.

December 12, 1905.

General Description.

This allotment contains nearly all bottom land and the soil is generally a rich sandy loam, capable of producing crops with irrigation.

The surface of the land is covered with a dense growth of greasewood, rose, sage and rabbit brush and willows, while a scattering growth of cottonwood timber is found along the river.

There is no settler found on this survey and the only improvements consist of a log cabin in a delapidated condition.

Resurvey of allotment No. 266, No. 19, War-Atze.

There is no land under cultivation.

There are no indications of mineral found on this survey.

Alfredo R Talamantes

U.S. Deputy Surveyor.

BOUNDARIES OF ALLOTMENT NO. 266, NO. 19 WAR-ATZE.

T. 10 S., R. 24 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Course,	Distance,	Latitudes,		Departures.	
		North	South	East	West.
S.13° 06'W.	16.67	.1.....	16.24	.....	3.77
S.76° 54'E.	24.04	.....	5.45	23.41	.....
N.12° 52'E.	16.98	16.55	.....	3.78	.....
N.77° 37'W.	23.98	5.14	23.42
T o t a l s		21.69	21.69	27.19	27.19

Total area of claim 40.40 acres.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of
 owing the respective capacities in which they acted:

For final affidavits see book "G" Allotment No.268, "No.21 Chainman.
 Frank Colorado". , Chainman.
 , Moundman.
 , Moundman.
 , Axman.
 , Axman.
 , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
 United States Deputy Surveyor, in surveying all
 those parts or portions of the
 of the
 meridian, of which are represented
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for
 For final affidavits see book "G", Allotment No.268, "No.21 Chainman.
 Frank Colorado". , Chainman.

..... , Moundman.
 , Moundman.
 , Axman.
 , Axman.
 , Flagman.

Scribed and sworn to before me this }
 day of , 190 }
 6-151



DO NOT STAMP

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

United States Deputy Surveyor

I solemnly swear that, in pursuance of a contract received from
United States Surveyor General for _____, bearing date of _____,
day of _____, 190_____, I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
General for _____, the Manual of Surveying Instructions, and the laws of
United States, surveyed all those parts or portions of
the said survey of _____ acre book "C", Allotment No.268, "No.21
Pratt Colorado".

of the
meridian, in the _____ of _____, which are represented in the
foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly
swear that all the corners of said survey have been established and perpetuated in strict accordance with
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor
General for _____, and in the specific manner described in the field notes, and that
the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Swear(ing) by salt _____, and sworn to before me }
this _____ day of _____, 190_____. }

████████
S. A. L.
████████

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 10, 190_____. 190_____

The foregoing field notes of the survey of Allotment No.268, No.19 Wex-Atzo
in Township No.10 South, Range No. 24 East of the Salt Lake Range
and Meridian, Utah.

examined by ALFRED H. TALMADGE and HARVEY D. HEINTZ.
Deputy Surveyors No. 1502, dated November 3, 1905, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
foregoing they constitute, are hereby approved.

Thomas Marshall
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described survey has
been correctly copied from the original notes on file in this office.

United States Surveyor General

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Filed April 1906

4-670.

"D"

BOOK A-335

FIELD NOTES

RE
OF THE SURVEY OF THE

A-L-L-O-T-M-E-N-T. N-0. 2-7-0.,, N-0. 2-3.,, P-A-N-T-A-L-O-O-N.....

in

Townships N.9 and 10 South,

Range No. 25 East,

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Alfredo R. Talamantes and Harvey D. Heist, United States Deputy Surveyors

their
~~under his~~ Contract No. 292, dated November 3, 1905

Survey commenced December 15, 1905

Survey completed December 17, 1905

NAMES AND DUTIES OF ASSISTANTS.

William H. Dunn Chairman.

Winsome F. Davis. Chairman.

Martin Rasmussen, Moundman.

John Burt, Flagman.

For preliminary affidavits see book "A", Allotment No. 265, No. 16.

Atchie.

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Volume

#

R0335

BOOK A-335

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Township , *Range*

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20	22	23	21	26	25
21	22	23	24	25	26

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey,

_____, Chainman

_____, Chainer

Subscribed and sworn to before me this _____
day of _____, 190_____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey,

_____, Moundman

_____, Moundman

Subscribed and sworn to before me this _____
day of _____, 190_____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey,

_____, Axman

_____, Axman

Subscribed and sworn to before me this _____
day of _____, 190_____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

_____, Flagman

Subscribed and sworn to before me this _____
day of _____, 190_____ }



Resurvey of Allotment No.270, No.23, Pantaloan.

CHAINS

Survey commenced December 15, 1905 and executed with the instrument described in book "A" of this survey.

As it is impossible to take a Polaris observation for a test of the adjustments of the instrument at any cor. near this survey on account of the distance from my camp, I make the observation near my camp at the cor. of secs. 23-24-25 and 26, Tp. 9 S., R. 24 E., in approximate latitude $40^{\circ}01'N.$, longitude $109^{\circ}13'W.$, where I established a true meridian by observation on Polaris, December 12, 1905.

I set off $40^{\circ}01'N.$ on lat.arc, $23^{\circ}12'S.$ on decl.arc, and at 4h. 06m., p.m., l.m.t., determine with the solar a meridian, and mark a point on the stone set December 11, 1905, 5 chs. N. of the cor.; this mark falls 0.3 ins. east of the meridian established by the Polaris observation.

December 15, 1905.

December 16: At 8h. 05m., a.m., l.m.t., I set off $40^{\circ}01'N.$ on lat.arc, $23^{\circ}14'S.$ on decl.arc, and mark a point in the meridian determined with the solar, by a cross on the stone, already set 5 chs. N. of my station; this mark falls 0.2 ins. west of the meridian established by the Polaris observation.

The solar apparatus, by p.m. and a.m. observations, defines positions for meridians respectively about $0'16''$ east and $0'11''$ west of the meridian established by the Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian at 8h. 20m., a.m. is $N.16^{\circ}18'W.$, the angle thus determined, gives the mag.decl. $16^{\circ}18'E.$

Being unable to find the White River Location Monument No. 2, which is also cor. No. 1, of this allotment, I proceed to reestablish the same by course and distance from a witness point, which is a corss, (X), on a ledge, marked W.R.L.M. No. 2, cor. No. 1.

-2-

Resurvey of allotment No. 270, No. 23, Pantaloons.

CHAINS	<p>At a point, S. $46^{\circ}30' E.$, 22.2 ft. from said cross (X), on ledge, I set a sandstone, 28x12x8 ins., 21 ins. in the ground, for reestablished White River Location Monument No. 2 and cor. No. 1, marked W.R.L.M. No. 2, on N.W.</p> <p>P.Beg.cor.No.1 on S.E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.E. of cor.</p> <p>Pits impracticable.</p> <p>At 8h.56m., a.m., l.m.t., I set off $39^{\circ}59' N.$ on lat. arc, $23^{\circ}16' S.$ on decl. arc, and determine a meridian with the solar at cor. No. 1, above described.</p> <p>Preliminary to beginning the survey of this allotment I set flags at all the cors. of the allotment and as the view between cors. is unobstructed, I get the courses of the lines bet. the cors. without running random lines.</p> <p>Thence S. $18^{\circ}41' E.$</p> <p>Through dense undergrowth.</p>
3.34	Right bank of White River; bears N.E. and S.W. Course of river, S.W.
5.18	Left bank of White River, bears N.E. and S.W. Note: The river being frozen over, it is possible to chain across on the ice.
11.30	To cor. No. 2. I find cor. No. 2 at this point, which is a lime shale stone, 20x16x4 ins., loosely set in a mound of stone, I reset the same stone, 15 ins. in the ground, for cor. No. 2, marked P(Cor. No. 2 on N.E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.E. of cor. Pits impracticable. No bearing objects available. Thence N. $54^{\circ}22' E.$ Continue the distance, Left bank of White River, bears N.W. and S.E. Course of river, westerly.
28.50	Left bank of White River, bears N.E. and S.W.
40.00	To $\frac{1}{2}$ mile cor.

Resurvey of allotment No. 270, No. 23, Pantaloan.

CHAINS

Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{2}$ mile cor., marked P $\frac{1}{2}$ M., on N.W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.W. of cor.

Pits impracticable.

No bearing objects available.

✓ 40.63

To cor. No. 3, in place, which is a sandstone, 16x15x12 ins. above ground, marked P<cor. No. 3, with mound of stone destroyed, I rebuild mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.W. of cor.

Pits impracticable.

No bearing objects available.

Thence N. $50^{\circ}10' E.$

Continue the distance,

To cor. No. 4, which is a sandstone, in place, 22x18x5 ins. above ground, marked with a cross (X), at exact cor. point and P<cor. No. 4 on N.W. side of cross, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.W. of cor.

Pits impracticable.

From this cor. the cor. of secs. 4-5-32 and 33, Tps. 9 and 10 S., R. 25 E., bears N. $88^{\circ}03' E.$, 17.14 chs. dist.

No other bearing objects available.

Thence N. $66^{\circ}35' E.$

Continue the distance,

Intersect line bet. secs. 5 and 32, Tps. 9 and 10 S., R. 25 E. 15.78 chs. west of the cor. of secs. 4-5-32 and 33, which is a sandstone, 15x8x4 ins. above ground, properly marked and witnessed, as described by the surveyor general.

✓ 76.19

To cor. No. 5, which is a limestone, 10x8x4 ins. above ground, marked P<cor. No. 5 on N.W. face, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

No bearing objects available.

Thence N. $86^{\circ}22' E.$

Continue the distance,

To 1 mile cor.

Set a limestone, 16x8x4 ins., 11 ins. in the ground, for 1 mile cor., marked P 1 M. on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Resurvey of allotment No. 270, No. 23, Pantaloons.

CHAINS	Pits impracticable. No bearing objects available. Land, bottoms. Soil, loam, 2nd. rate. Timber, scattering cottonwoods along river bank. Dense undergrowth on 68.87 chs.
	2nd. Mile.
	From the 1 mile cor., I run N.86°22'E. Through dense undergrowth.
2.56	Intersect line bet. secs. 32 and 33, T. 9 S., R. 25 E., 4.49 chs., N.0°01'E., of the cor. of secs. 4-5-32 and 33, heretofore described.
✓23.69	To cor. No. 6. I found mound of stone, but was unable to find cor., therefore at this point, directly south of mound of stone, 3 ft. dist., I set a lime shale stone, 18x14x3 ins., 12 ins. in the ground, for cor. No. 6, marked P<Cor. No. 6 on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. No bearing objects available.
40.00	Thence N.79°18'E. Continue the distance, To 1½ mile cor. Set a sandstone, 16x10x4 ins., 11 ins. in the ground, for 1½ mile cor., marked P 1½ M on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. No bearing objects available.
✓49.99	To cor. No. 7, which is a lime shale stone, 14x10x3 ins. above ground, marked P<cor. No. 7 on N. face, with no mound, I raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. No bearing objects available.
54.91	Thence N.85°04'E. Continue the distance, Left bank of White River, bears N.W. and S.E.

Resurvey of allotment No. 270, No. 23, Pantaloons.

CHAINS

Course of river, N.W.

56.76 Right bank of White River, bears N.W. and S.E.

61.36 Right bank of White River, bears N.W. and S.E.

Course of river, S.W.

63.24 Left bank of White River, bears N.E. and S.W.

Note:

The river being frozen over, it is possible to cross on the ice.

80.00 To 2 mile cor.

Set a sandstone, 16x12x3 ins., 11 ins. in the ground, for 2 mile cor., marked P 2 M on N. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Pits impracticable.

No bearing objects available.

Land, bottoms.

Soil, loam, 2nd rate.

Timber, scattering cottonwood along the river.

Dense undergrowth 76.37 chs.

December 16: At this cor. I set off $23^{\circ}17' S.$ on decl. arc, and at 11h.56m., 1.m.t., observe the sun on the meridian, the resulting lat. is $39^{\circ}59' N.$

3rd.Mile.

From the 2 mile cor., I run N. $85^{\circ}04'E.$

Through dense undergrowth!

5.17 Intersect the line bet. secs. 33 and 34, 13.47 chs., N. $0^{\circ}02'E.$, from the cor. of secs. 3-4-33 and 34, Tps. 9 and 10 S. R. 25 E., which is a sandstone, 15x5x4 ins. above ground, properly marked and witnessed, as described by the surveyor general.

✓ 5.22 To cor. No. 8, which is a sandstone, 16x9x5 ins. above ground marked P<cor. No. 8 on N.W. face, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.W. of cor.

Pits impracticable.

No bearing objects available.

Thence N. $54^{\circ}58'E.$

Continue the distance,

Resurvey of allotment No. 270, No. 23, Pantaloons.

CHAINS

- 24.40 To cor. No. 9, which is a sandstone, 14x8x10 ins., above ground, marked P_Cor. No. 9 on W. face, with no mound, I raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
Pits impracticable.
No bearing objects available.
Thence N. 60° 00' W.
Continue the distance,
Left bank of White River, bears N.E. and S.W.
Course of river, S.W.
39.42 Right bank of White River, bears N.E. and S.W.
Note:
The river being frozen over, it is possible to cross on the ice.
39.59 To cor. No. 10, which is a lime shale stone, 14x11x6 ins. above ground, marked P_Cor. No. 10 on S. face, with no mound, I raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
Pits impracticable.
No bearing objects available.
Thence S. 80° 26' W.
Continue the distance,
To 2½ mile cor.
Set a sandstone, 16x12x5 ins., 11 ins. in the ground, for 2½ mile cor., marked P 2½ M on S. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
Pits impracticable.
No bearing objects available.
44.23 Intersect line bet. secs. 33 and 34, T. 9 S., R. 25 E., 31.42 chs. N. 0° 02' E., from the cor. of secs. 3-4-33 and 34, heretofore described.
80.00 To 3 mile cor.
Set a limestone, 18x10x4 ins., 12 ins. in the ground, for 3 mile cor., marked P₃ M, on S. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.
Pits impracticable.
No bearing objects available.
Land, bottoms.
Soil, loam, 2nd. rate.

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Resurvey of allotment No. 270, No. 23, Pantaloons.

CHAINS

Timber, scattering cottonwoods along river bank.
Dense undergrowth on 78.34 chs.

December 16, 1905.

December 17: At 7h.56m., a.m., l.m.t., I set off $39^{\circ}59'N.$ on lat.arc, $23^{\circ}16'S.$ on decl.arc, and determine a meridian with the solar at the 3 mile cor.

Thence I run $S.80^{\circ}26'W.$

Through dense undergrowth.

40.00 To $3\frac{1}{2}$ mile cor.

Set a sandstone, $15 \times 12 \times 5$ ins., 10 ins. in the ground, for $3\frac{1}{2}$ mile cor., marked P $3\frac{1}{2} M$ on S.face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.of cor.

Pits impracticable.

No bearing objects available.

45.37 Intersect the line bet. secs. 32 and 33, T. 9 S., R. 25 E., 18.10 chs., N. $0^{\circ}01'E.$, from the cor. of secs. 4-5-32 and 33, heretofore described.

51.55 To cor. No. 11, which is a sandstone, $18 \times 16 \times 3$ ins. above ground, marked P cor. No. 11 on S.face, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.of cor.

Pits impracticable.

No bearing objects available.

Thence $S.55^{\circ}23'W.$

54.88 Continue the distance,
Right bank of White River, bears E. and W.

Course of river, S.W.

58.37 Right bank of White River, bears N.E. and S.W.

60.49 Right bank of White River, bears E. and W.

Course of river westerly.

66.85 Right bank of White River, bears N.E. and S.W.

Note:

The river being frozen over, it is possible to chain across the river.

80.00 To 4 mile cor.

Set a sandstone, $18 \times 12 \times 3$ ins., 12 ins. in the ground, for

Resurvey of allotment No. 270, No. 23, Pantaloons.

CHAINS

4 mile cor., marked P 4 M on S.E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.E. of cor.
Pits impracticable.
No bearing objects available.
Land, bottoms.
Soil, loam, 2nd. rate.
No timber.
Dense undergrowth on 70.15 chs.

5th. Mile.

From the 4 mile cor. I run S. $55^{\circ}23'W$.

Through dense undergrowth.

1.60 Intersect the line bet. secs. 5 and 32, Tps. 9 and 10 S.,
R. 25 E., heretofore described, 30.81 chs., West of the cor.
of secs. 4-5-32 and 33, heretofore described.

40.00 To $4\frac{1}{2}$ mile cor.

Set a lime shale stone, 18x12x3 ins., 12 ins. in the ground,
for $4\frac{1}{2}$ mile cor., marked P $4\frac{1}{2}$ M on S.E. face, and raise
a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.E. of cor.

Pits impracticable.

No bearing objects available.

40.62 To cor. No. 1, the place of beginning,

Land, bottoms.

Soil, loam, 2nd. rate.

No timber.

Dense undergrowth on 40.62 chs.

December 17, 1905.

General Description.

This allotment contains nearly all bottom land and the soil is generally rich loam capable of producing crops with irrigation.

Scattering cottonwood timber is found along the river and a dense growth of greasewood, sage and rabbit brush

Resurvey of allotment No. 270, No. 23, Pantaloan.

CHAINS

and willows cover the entire allotment.

There is no settler or any improvements found on this allotment nor are there indications of ever having been. There are no indications of mineral found in this survey.

Alfredo R. Tolamante
U.S. Deputy Surveyor

BOUNDARIES OF ALLOTMENT NO.270, NO.23, PANTALOON.TPS. 9 and 10 S., R. 25 E.LATITUDES, DEPARTURES, AND CLOSING ERRORS.

No.	Course,	Distance	Latitudes,		Departures.	
			North	South	East	West.
C.Cor. 1	S. $18^{\circ} 41' E.$	11.30	.....	10.70	3.62	.....
2	N. $54^{\circ} 22' E.$	29.33	17.09	.....	23.84	.....
3	N. $50^{\circ} 10' E.$	23.82	15.26	.....	18.29	.....
4.	N. $66^{\circ} 35' E.$	11.74	4.66	.....	10.77	.....
5,	N. $86^{\circ} 22' E.$	27.50	1.74	.....	27.44	.....
6,	N. $79^{\circ} 18' E.$	26.30	4.88	.....	25.84	.....
7.	N. $85^{\circ} 04' E.$	35.23	3.03	.....	35.10	.....
8,	N. $54^{\circ} 58' E.$	19.18	11.01	.....	15.70	.....
9,	N. $60^{\circ} W.$	15.19	7.59	.....	.....	13.15
10	S. $80^{\circ} 26' W.$	91.96	.....	15.28	.....	90.68
11	S. $55^{\circ} 23' W.$	69.07	.....	39.24	.....	56.84
Bdg.Cor.	Totals,		65.26 65.22	65.22	160.60	160.67 160.60
	Error in lat.	.04	Error in dep.	.07		
	Total area of claim	219.85 acres.			

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of

 owing the respective capacities in which they acted:

....., *Chairman.*
 for final affidavits see book "G", Allotment No.268, No.31, *Chairman.*
 Frank Colorado, *Moundman.*
 *Moundman.*
 *Axman.*
 *Axman.*
 *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted,

..... United States Deputy Surveyor, in surveying all
 the parts or portions of the

..... of the
 meridian, of which are represented
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for

for final affidavits see book "G", Allotment No.268, No.31, *Chairman.*
 Frank Colorado, *Chairman.*
 *Moundman.*
 *Moundman.*
 *Axman.*
 *Axman.*
 *Flagman.*

described and sworn to before me this }
 day of , 190 }

000000
0 SEAL 0
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____ day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavits see book "G", Allotment No. 262, No. 21
Frank Colorado.

of the

meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 16, 190_____,

The foregoing field notes of the ^{re} survey of Allotment No. 270, No. 23, Pantaloons, in Townships Nos. 9 and 10 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey D. Heist, under their contract No. 292, dated November 3, 1905; having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas B. Howell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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Filed April 17/06

4-670.

" E "
BOOK A-335

FIELD NOTES

RE
OF THE SURVEY OF THE

A-L-I-Q-T-M-E-N-T N-0. 2-6-9, N-0. 2-2, WEAVER IGNATIUS

in

Township No. 9 South,

Range No. 25 East,

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Alfredo R. Talamantez and Harvey J. Heist, United States Deputy Surveyors
their
~~der-his~~ Contract No. 292, dated November 3, 1905

Survey commenced December 18, 1905

Survey completed December 18, 1905

NAMES AND DUTIES OF ASSISTANTS.

William H. Dunn, Chairman

Vinson F. Davis, "

Martin Rasmussen, Moundman

John Burt, Flagman

For preliminary affidavits see book "A", Allotment No. 265,

"No. 16 Atchie".

6-161

Volume

#

R0335

BOOK A-335

INDEX DIAGRAM.

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____ do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this _____
day of _____, 190 }



WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this _____
day of _____, 190 }



WE, _____ and _____ do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axman.

, Axman.

Subscribed and sworn to before me this _____
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this _____
day of _____, 190 }



Resurvey of allotment No. 269, No. 22, Weaver Ignatio.

CHAINS

Survey commenced, December 18, 1905, and executed with the instrument described in book "A", of this survey.

I know from recent observations made near my camp at the cor. of secs. 23-24-25 and 26, T. 9 S., R. 24 E., on December 15 and 16, 1905, and recorded in book "D", of this survey, that the instrument is in adjustment.

I begin at cor. No. 1 of this allotment, which is a sandstone, 28x18x14 ins. above ground, marked Cor. No. 1 on S.W. face, I add the markings W I Beg. on S.W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.W. of cor. Pits impracticable.

No bearing objects available.

Preliminary to beginning the survey of this allotment, I set flags at all the cors. of the allotment and as the view between the cors. is unobstructed, I get the courses of the lines between the cors. without running random lines.

At 8h.57m., a.m., l.m.t., I set off $40^{\circ}00' N.$ on lat. arc, $23^{\circ}21' S.$ on decl. arc, and determine a meridian with the solar.

Thence I run S. $88^{\circ}58' W.$

Through dense undergrowth.

1.00 Left bank of White River, bears N. and S.

Course of river S.

2.36 Right bank of White River, bears N. and S.

16.51 Road from Bonanza to Rangley, bears N.E. and S.W.

17.42 To cor. No. 2, which is a lime shale stone, 28x14x4 ins. above ground, with marks obliterated, I mark W. I. Cor. No. 2 on S.E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.E. of cor.

Pits impracticable.

No bearing objects available.

Thence S. $14^{\circ}46' W.$

Continue the measurement,

Road from Bonanza to Rangley, bears N.E. and S.W.

40.00 To $\frac{1}{2}$ mile cor.

Resurvey of allotment No. 269, No. 22, Weaver Ignatio.

- | CHAINES | |
|---------|---|
| | Set a sandstone, 18x12x6 ins., 12 ins. in the ground, for $\frac{1}{2}$ mile cor., marked W, I; $\frac{1}{2}$ M on E face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor.
Pits impracticable.
No bearing objects available. |
| 41.61 | To cor. No. 3, identical with White River Location Monument No. 1, which is a sandstone, 28x12x4 ins. above ground, marked W.R.L.M. No. 1 on N.E. face, I add the marks W.I.Cor. No. 3, on N.E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.E. of cor.
Pits impracticable.
From this cor. the witness cor. to secs. 27-28-33 and 34, which is a sandstone, 10x8x4 ins. above ground, properly marked and witnessed, bears S. $37^{\circ}18'W.$, 15.87 chs. dist.
Thence S. $75^{\circ}14'E.$
Continue the measurement,
Right bank of White River, bears N.E. and S.W.
Course of river, S.W. |
| 49.72 | Left bank of White River, bears N.E. and S.W. |
| 56.61 | To cor. No. 4, which is a sandstone, 24x12x4 ins. above ground, with marks nearly obliterated; I mark W.I.Cor. No. 4 on N.W. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.W. of cor.
Pits impracticable. No bearing objects available.
Thence N. $18^{\circ}15'E.$
Continue the measurement,
Left bank of White River, bears N.E. and S.W.
Course of river S.W. |
| 80.00 | Point for 1 mile cor. falls on the ice in the river and cannot be set.
Land, bottoms.
Soil, sandy loam, 2nd. rate.
No timber.
Dense undergrowth on 71.76 chs. |

Resurvey of allotment No. 269, No. 22, Weaver Ignatio.

CHAINS

2nd. Mile.

From the point for the 1 mile cor. I run N.18° 15'E.
Over the ice on White River.

4.75 Left bank of White River, bears N. and S.

4.85 To witness cor. to 1 mile cor.

Set a lime shale, 20x12x4 ins., 15 ins. in the ground, for
witness cor. to 1 mile cor., marked W.C.W.I.1 M on W. face,
and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Pits impracticable.

No bearing objects available.

5.44 To cor. No. 1, the place of beginning,

Land, bottoms.

Soil, sandy loam, 2nd. rate.

Timber, scattering cottonwoods along river bank.

Dense undergrowth on 59 lks.

December 18, 1905.

General Description.

This allotment lies in the bottoms along White River and the soil is generally a rich black loam, capable of producing crops with irrigation.

A dense growth of greasewood, rose, sage and rabbit brush is found covering the entire allotment, while a scattering growth of cottonwood timber and willows are found along the banks of the river.

There are no settlers or improvements of any kind found on this survey, while there are no indications of any land ever having been under cultivation.

There are no indications of mineral found in this survey. White River was frozen over at the time of this survey.

Alfredo R. Talamantez

U.S. Deputy Surveyor.

BOUNDARIES OF ALLOTMENT NO 269 NO 22 WEAVER TOWNSHIP

T. 9 S., R. 25 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

No.	Course,	Distance	Latitudes,		Departures.	
			North,	South,	East,	West.
Beg. Cor. 1.	S.88° 58'W.	17.41	.....	.31	.....	17.41
2.	S.14° 46'W.	24.19	.....	23.39	.....	6.16
3.	S.75° 14'E.	15.00	.....	3.82	14.50	.....
4,	N.18° 15'E.	28.83	27.38	.....	9.03	.....
	Totals		27.38	27.52 27.38	23.53	23.57 23.53
	Error in lat.			.14	in dep.	.04

Total area of claim 41.84 acres.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of

owing the respective capacities in which they acted:

For final affidavits see back "G", Allotment No. 268, "No. 21, Chainman.
 "No. 31, Frank Colorado". , Chainman.
 , Moundman.
 , Moundman.
 , Axman.
 , Axman.
 , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
 United States Deputy Surveyor, in surveying all
 those parts or portions of the
 of the
 meridian, of which are represented
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for
 For final affidavits see back "G", Allotment No. 268, "No. 21, Chainman.
 "No. 31, Frank Colorado". , Chainman.

..... , Moundman.
 , Moundman.
 , Axman.
 , Axman.
 , Axman.
 , Flagman.

scribed and sworn to before me this }
 day of , 1900 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor,.....
 solemnly swear that, in pursuance of a contract received from.....
 United States Surveyor General for..... bearing date of.....
 day of..... 190..... I have well, faithfully, and truly, in my
 proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for..... the Manual of Surveying Instructions, and the laws of
 United States, surveyed all those parts or portions of.....

See "My Field Notes book 505 Allotment No. 268, "No. 21
 Partial Surveyor".

..... of the.....
 meridian, in the of....., which are represented in
 foregoing field notes as having been surveyed by me, and under my direction; and I do further declare
 that all the corners of said survey have been established and perpetuated in strict accordance
 with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for..... and in the specific manner described in the field notes, and
 the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
 This day of 190 }

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 SEAL
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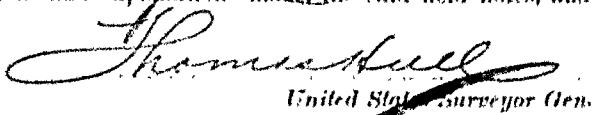
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, May 16, 1905.
 re

The foregoing field notes of the survey of Allotment No. 268, No. 22, Weaver
 Section, in Township No. 9 South, Range No. 25 East of the Salt
 Lake Base and Meridian, Utah,

submitted by Alfred P. Tolmentea and Harvey L. Heint,
 and of the Surveyor General No. 268, dated November 3, 1905, having
 carefully examined, and the necessary corrections and explanations made, the said field notes, and
 the survey they describe, are hereby approved.


 Thomas H. Howell
 United States Surveyor Gen.

I certify that the foregoing transcript of the field notes of the above-described survey in.....
 has been correctly copied from the original notes on file in this office.

United States Surveyor Gen.

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Talor & Heist

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BOOK A-335
"F"

FIELD NOTES

RE
OF THE SURVEY OF THE

A-L-L-O-T-M-E-N-T N-0. 2-6-7, N-0.20 , JIMMY COLOROW

in

Township No. 9 South,

Range No. 25 East,

Of the Salt Lake Base and Meridian,

in the state of Utah.

AS SURVEYED BY

Alfredo R. Talamantes and Harvey D. Heist, United States Deputy Surveyor,
their Contract No. 292, dated November 3, 1905

Survey commenced December 20, 1905

Survey completed December 20, 1905

NAMES AND DUTIES OF ASSISTANTS.

William H. Dunn, Chainman

Vinson F. Davis, "

Martin Rasmussen, Moundman

John Burt, Flagman

For preliminary affidavits see book "A", Allotment No. 265, "No. 16

Atchie".

BOOK A-335

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainma

, Chainma

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



We, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundm.

, Moundm.

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



We, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of _____ and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axme

, Axme

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

, Flagme

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



Resurvey of allotment No. 267., No. 20, Jimmy Colorow.

CHAINS

Survey commenced, December 20, 1905, and executed with the instrument described in book "A", of this survey.

I know from recent observations, made near my camp, at the cor. of secs. 23-24-25 and 26, T. 9 S., R. 24 E., on December 15 and 16. 1905, and recorded in book "D", of this survey, that the instrument is in adjustment.

Preliminary to beginning the survey of this allotment, I set flags at all the cors. of the allotment and at the closing cors. of secs. 13 and 24, 24 and 25, T. 9 S., R. 25 E., on the Utah-Colorado bdy. line; as the view between cors. is unobstructed, I get the courses of the lines bet. cors. without running random lines.

I find that the greater part of this allotment lies in the state of Colorado, while the Utah-Colorado bdy. line is supposed to be also the east bdy. of the allotment.

I therefore locate a point on the Utah-Colorado bdy. line where it intersects the line bet. cors. 5 and 6 of the original survey of the allotment, the course of which line I find to be N. 71° 54' E.; this point to be cor. No. 1 of my survey.

Set a lime shale, ^{stone}, 24x12x4 ins., 18 ins. in the ground, for reestablished cor. No. 1 of allotment No. 267, No. 20, Jimmy Colorow, marked J C Beg Cor No. 1 U on S.W. face, Col on N.E. face, and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S.W. of cor.

Pits impracticable.

From this cor. the closing cor. of secs. 13 and 24, T. 9 S., R. 25 E., which is a lime shale stone, 10x5x4 ins. above ground, marked and witnessed as described by the surveyor general, bears N. 0° 38' E., 2.63 chs. dist.

At 1h. 57m., p.m., l.m.t., I set off 40° 02' N. on lat. arc, 23° 24' S. on decl. arc, and determine a meridian with the solar, at cor. No. 1, just reestablished.

Thence I run S. 0° 38' W., along the Utah-Colorado bdy. line.

Resurvey of allotment No. 267, No. 20, Jimmy Colorow.

CHAINS	
12.00	Road from Bonanza to Rangley, bears E. and W.
16.00	Right bank of White River, bears E. and W. Course of river, W. River frozen; cross in ice.
18.10	Left bank of White River, bears E. and W.
34.64	Intersect line bet. cors. 2 and 3 of original survey, course of said line is S.73°54'W. Point for cor. No. 2. Set a lime shale stone, 30x12x2 ins., 23 ins. in the ground, for reestablished cor. No. 2, marked J C Cor No. 2 U, on N.W. face, Col on S.E. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N.W. of cor. Pits impracticable. No bearing objects available. Thence S.73°54'W. Continue the measurement, To $\frac{1}{2}$ mile cor.
40.00	Set a lime shale 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{2}$ mile cor., marked J C $\frac{1}{2}$ M on N. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor. Pits impracticable. No bearing objects available.
46.60	To cor. No. 3, which is also cor. No. 1 allotment No. 268, No. 21, Frank Colorado, which is a sandstone, 16x10x2 ins. above ground, with marks nearly obliterated, I mark J C Cor No. 3 on N.E. face, F C Beg Cor. No. 1 on S.W. face, and raise a mound of stone, 2 ft. base, 1½ ft. high, N.E. of cor. Pits impracticable. No bearing objects available.
56.10	Thence N.52°45'W. Continue the measurement, Left bank of White River, bears N.E. and S.W. Course of river, S.W. River frozen; cross on ice.
58.96	Right bank of White River, bears N.E. and S.W.
65.54	Road from Bonanza to Rangley, bears N.E. and S.W.
71.08	To cor. No. 4, which is also cor. No. 2, allotment No. 268,

Resurvey of allotment No. 267, No. 20, Jimmy Colorow.

CHAINES

No. 21, Frank Colorado, which is a lime shale stone, 16x6x4 ins. above ground, with marks nearly obliterated, I mark J C Cor. No. 4 on E. face, F C Cor. No. 2 on S. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. Pits impracticable.

No bearing objects available.

Thence N. $50^{\circ}54' E.$

80.00

Continue the measurement,
To 1 mile cor.

Set a lime shale stone, 18x12x4 ins., 12 ins. in the ground for 1 mile cor., marked J C 1 M on S.E. face, and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S.E. of cor.

Pits impracticable.

No bearing objects available.

Land, bottoms.

Soil, sandy loam, 2nd. rate.

Timber, scattering cottonwoods along river.

Dense undergrowth on 75.04 chs.

2nd. Mile.

From the 1-mile cor., I run N. $50^{\circ}54' E.$

Through dense undergrowth.

24.54

To Cor. No. 5, which is a lime shale, 24x14x4 ins. above ground, marked J C Cor No. 5 on S. face, with no mound, I raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. Pits impracticable.

No bearing objects available.

Thence N. $71^{\circ}54' E.$

Continue the measurement,
To cor. No. 1; the place of beginning, extending in arc of

Land, bottoms.

Soil, sandy loam, 2nd. rate.

No timber.

Dense undergrowth on 30.22 chs.

December 20, 1905.

Resurvey of allotment No. 267, No. 20, Jimmy Colorow.

CHAINS

General Description.

This allotment lies in the bottoms of White River and the soil is generally rich black loam, capable of producing crops with irrigation.

The surface of the ground is covered with a dense growth of greasewood, rose, sage and rabbit brush, while a scattering growth of cottonwood timber and willows is found along the river banks.

There are no settlers or any improvements found on this allotment and there are no indications that there ever have been.

There are indications of mineral found on this survey.

Alfredo R. Talamantes

U.S. Deputy Surveyor.

BOUNDARIES OF ALLOTMENT NO. 267, NO. 20, JIMMY COLOROW,

T. 9 S., R. 25 E.

LATITUDES, DEPARTURES, AND CLOSING ERRORS.

Course,	Distance	Latitudes, Departures.			
		North	South	East	West.
S. 0° 38' W.	34.04	.....	34.64	.....	.38
S. 73° 54' W.	11.96	.....	3.32	.....	11.49
N. 52° 45' W.	24.48	14.82	.....	.....	19.49
N. 50° 54' E.	33.46	21.10	.....	25.97	.....
N. 71° 54' E.	5.68	1.76	.....	5.40	.....
T o t a l s		37.68	37.96	31.37	31.36
			37.68	31.36	

Error in lat. .28 .01 in dep.

Total area of claim 68.93 acres.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by the ~~United States Deputy Surveyor~~, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of ~~the tract or portion of the~~ land, following the respective capacities in which they acted:

or final affidavit, see book No. 355, Attachment No. 268, "No. 21 Chairman,
Frank Colcord", *Chairman,*
Moundman,
Moundman,
Arman,
Arman,
Flagman,

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

~~the~~ United States Deputy Surveyor, in surveying all

~~the parts or portions of the~~

~~of the~~

~~the~~ *Chairman,* *Moundman,* *Arman,* *Flagman,* which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
was in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
lines and corners established, according to the instructions furnished by the United States Surveyor
named for

~~the~~ *Chairman,* *Moundman,* *Arman,* *Flagman,*
Chairman, *Moundman,* *Arman,*
Moundman, *Arman,*
Arman, *Flagman,*

~~described and sworn to before me this~~ *day of* ~~January~~ *190* *in the year of our Lord* *190*

662000
662000
662000

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____ day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavit see book "G" Allotment No. 268, "No. 21 Frank Colorado".

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Su. e.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 16, 190_____,

The foregoing field notes of the survey of _____ ^{re} Allotment No. 267, No. 20, Jimmy Colow, in Township No. 2 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey J. Heist, their _____, under his contract No. 292, dated November 3, 1905, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas D. Bell
United States Surveyor Ge...

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor Gen.

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4-670.

Kirkland - 1770

G
500K A-335

FIELD NOTES

RE
OF THE SURVEY OF THE

A-L-L-0-T-V-E-N-T N-0.2-6-4, N-0.2-1, FRANK COLORADO.

IN

Township No. 9 South,

Range No. 25 East.

Of the Salt Lake Meridian,
in the state of Utah,

AS SURVEYED BY

SURVEYORS H. REINHOLD AND ALFRED A. THOMAS, United States Deputy Surveyors

Under Contract No. 222, dated November 3, 1905.

Survey commenced December 21, 1905.

Survey completed December 22, 1905.

(cont)

NAMES AND DUTIES OF ASSISTANTS.

William H. Dunn, Chainman.

Vinson F. Davis Chainman.

Martin Rasmussen, Moundman.

John Burt, Flagman.

For preliminary affidavits see book "A", Allotment No. 265,

"No. 16, Atchic".

BOOK A-335

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Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey,

, Chainma

, Chainma

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundma

, Moundma

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axma

, Axma

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

, Flagm

Subscribed and sworn to before me this _____
day of _____, 190 _____ }



Resurvey of Allotment No. 268, No. 21, Frank Colorado.

Chains.

Survey commenced December 21, 1905, and executed with the instrument described in book "A" of this survey. I know from recent observations made near my camp, at the cor. of secs. 23, 24, 25, and 26, T. 9 S., R. 24 E. on December 15 and 16, 1905, and recorded in book "D" of this survey, that the instrument is in adjustment. I begin at cor. No. 1, which is identical with cor. No. 3, Allotment No. 267, No. 20, Jimmy Colorow, heretofore described in book "F" of this survey.

At 8 h. 58 m.a.m.l.m.t. I set off $40^{\circ} 01'$ N. on lat. arc $23^{\circ} 24'$ S. on decl. arc, and determine a meridian with the solar.

Thence $N.52^{\circ} 45'W.$

Through dense undergrowth.

9.50 Left bank of White River, bears N.E. and S.W. Course of river S.W.

12.36 Right bank of White River bears N.E. and S.W.

18.94 Road from Bonanza to Rangley, bears NE. and SW.

24.48 To cor. No. 2, identical with cor. No. 4 of Allotment No. 267, No. 20, Jimmy Colorow, heretofore described.

From this cor. the $\frac{1}{4}$ rec.cor. bet. secs. 23 and 24, T. 9 S. R. 25 E., which is a sandstone 8x8x4 ins. above ground, marked and witnessed as described by the surveyor general bears $S.12^{\circ} 47'W.$ 14.78 chs. dist.

Thence $S.4^{\circ} 55'W.$

40.00 Continue the measurement,
To $\frac{1}{2}$ mile cor.

Set a lime shale stone 24x10x2 ins., 18 ins. in the ground for $\frac{1}{2}$ mile cor., marked F C $\frac{1}{2}$ M on S.E. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high S.E. of cor. Pits impracticable. No bearing objects available.

51.65 Road from Bonanza to Rangley bears N.E. and SW.

52.86 To Cor. No. 3, which is a limeshale stone 16x16x3 ins. above ground, with marks nearly obliterated, I mark

Resurvey of Allotment No. 268, No. 21, Frank Colorado.

Chains.	F C Cor No 3 on E.face, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high E.of cor.Pits impracticable.	
54.835	No bearing objects available. Thence S. $25^{\circ}40'W.$, continue the measurement, Intersect the line bet.sec.23 and 24 T. 9 S., R. 25 E. S. $0^{\circ}03'W.$ 15.65 chs.of the $\frac{1}{4}$ sec.cor.bet.sec.23 and 24, heretofore described.	
60.29	To Cor.No.4, which is a lime shale stone 14x6x3 ins. above ground, with marks nearly obliterated, I mark F C Cor No 4 on SE.face, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high SE.of cor.Pits impracticable. No bearing objects available.	
80.00	Thence S. $66^{\circ}27'W.$ Continue the measurement, Set a sandstone 15x12x4 ins.. 10 ins.in the ground,for 1 mile cor., marked F C 1 M on S.face, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high S.of cor. Pits impracticable. No bearing objects available. Land bottoms. Soil sandy loam; 2nd rate. Timber scattering cottonwood along river bank. Dense undergrowth on 77.14 chs.	

2nd Mile.

4.56	From the 1 mile cor.I run S. $66^{\circ}27'W.$ Through dense undergrowth.	
	To cor.No.5, which is a sandstone 14x12x5 ins.with marks nearly obliterated; I mark F C Cor No.5 on S.face; and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high S.of cor. Pits impracticable. No bearing objects available.	
26.40	Thence S. $86^{\circ}05'W.$ Continue the measurement, Road from Bonanza to Rangeley bears NE. and SW.	
28.91	To cor.No.6, which is a sandstone 14x14x5 ins.above ground with marks nearly obliterated; I mark F C Cor No 6 on SE.face; and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high SE.of cor.	

Resurvey of Allotment No. 268, No. 21, Frank Colorado.

Chains.

Pits impracticable. No bearing objects available.

Thence S. 27° 05' W.

Continue the measurement,
Road from Bonanza to Rangley bears N.E. and S.W.

37.90 Intersect line bet. secs. 23 and 26 T. 9 S., R. 25 E. 8.73
chs. N. 89° 56' W. of witness $\frac{1}{4}$ sec. cor. bet. secs. 23 and 26.

40.00 To 1 $\frac{1}{2}$ mile cor.

Set a sandstone 18x12x5 ins.. 1 $\frac{1}{2}$ ins. in the ground for
1 $\frac{1}{2}$ mile cor., marked F C 1 $\frac{1}{2}$ M on E. face; and raise a
mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high E. of cor.

Pits impracticable.

No bearing objects available.

49.62 Right bank of White River bears E. and W. Course of ri-
ver W.

51.22 Left bank of White River bears E. and W.

52.88 To Cor. No. 7, which is a sandstone 16x10x3 ins. above
ground with marks nearly obliterated; I mark F C Cor
No. 7 on N.E. face, and raise a mound of stone 2 ft. base
1 $\frac{1}{2}$ ft. high N.E. of cor. Pits impracticable.

No bearing objects available.

December 21: At this cor. I set off 23° 25'S. on decl. arc;
and at 11 h 58m a.m. J.m.t. observe the sun on the me-
ridian; the resulting lat. is 40° 02' N.

Thence N. 77° 05' E.

Continue the measurement,
Left bank of White River bears N.W. and S.E.

66.67 Left bank of White River bears N.E. and S.W.

80.00 To 2 mile cor.

Set a sandstone 18x12x4 ins., 12 ins. in the ground for
2 mile cor., marked F C 2 M on N. face; and raise a
mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cor. Pits
impracticable.

No bearing objects available.

Land bottoms.

Soil sandy loam; 2nd rate.

Timber scattering cottonwoods along river bank.

Resurvey of Allotment No. 268 No. 21, Frank Col.

Chains. Dense undergrowth on 73.25 chs.

3rd Mile.

From the 2 mile cor. I run N.77° 05'E.

Through dense undergrowth.

- 32.24 Intersect line bet. secs. 23 and 26, T. 9 S., R. 25 E.
1.94 chs. N.89° 56'W. of the cor. of secs. 23, 24, 25, and
26, which is a sandstone 10x8x3 ins. above ground,
marked and witnessed as described by the surveyor gen-
eral.
- 34.23 Intersect the line bet. secs. 23 and 24 45 lks. N.0°03'E.
of cor. of secs. 23, 24, 25, and 26, heretofore described.
- 40.00 To 2½ mile cor.
Set a sandstone 18x12x6 ins., 12 ins. in the ground for
2½ mile cor., marked F C 2½ M on N. face, and raise a
mound of stone, 2 ft. base, 1½ ft. high N. of cor. Pits
impracticable. No bearing objects available.
- 60.57 To cor. No. 8, which is a lime shale stone 11x10x6 ins.
above ground, with marks nearly obliterated, I mark
F C Cor No. 8 on N.W. face, and raise a mound of stone
2 ft. base, 1½ ft. high N.W. of cor. Pits impracticable.
No bearing objects available.
- 74.30 Thence N.4° 57'W.
Continue the measurement,
Left bank of White River bears N.E. and S.W. Course of
river S.W.
- 77.04 Right bank of White River bears N.E. and S.W.
- 80.00 To 3 mile cor.
Set a sandstone 18x14x5 ins., 12 ins. in the ground for
3 mile cor., marked F C 3 M on W. face, and raise a
mound of stone 2 ft. base 1½ ft. high W. of cor.
Pits impracticable. No bearing objects available.
Land bottoms.
Soil sandy loam; 2d rate.

Resurvey of allotment No. 268, No. 21, Frank Colorado.

CHAINS

Timber, scattering cottonwoods along river bank.
Dense undergrowth on 77.38 chs.

December 21, 1905.

4th, Mile.

December 22: At 8h.59m., a.m., l.m.t., I set off 40°02' N. on lat. arc, 23°24' S. on decl. arc, and determine a meridian with the solar, at the 3rd. mile cor.

From the 3 mile cor., I run N. 4°57' W.

- 2.20 Right bank of White River, bears N.W. and S.E.
Course of river, S.E.
5.43 Left bank of White River, bears N.W. and S.E.
113.95 To cor. No. 1, the place of beginning, end of line, all of
which is frozen.
Land, bottoms.
Soil, sandy loam, 2nd. rate.
No timber.
Dense undergrowth on 10.72 chs.

December 22, 1905.

General Description

This allotment lies almost entirely in the bottoms along White River and the soil is generally a rich black loam, capable of producing crops with irrigation.

The surface of the ground is covered with a dense growth of greasewood, rose, sage and rabbit brush, while a scattering growth of cottonwood timber and willows is found along the river banks.

There is no settler or any improvements found on this survey.

There are no indications of mineral found on this survey. White River was frozen over at the time of survey, making it possible to chain across on the ice.

General Statement.

The allotments surveyed to this date are the only ones that are located on surveyed land, the balance being on land not yet embraced in the public survey.

Alfredo R Talamantes
U.S. Deputy Surveyor.

BOUNDARIES OF ALLOTMENT NO. 268, NO. 21, FRANK COLORADO.

Note:

There being no notary public or other officer authorized to administer oaths, within reasonable distance, at the beginning or ending of this survey in order to save time and expense, I administer the preliminary and final oaths, myself.

Alfredo R Talamantes
U.S. Deputy Surveyor.

BOUNDARIES OF ALLOTMENT NO. 268, NO. 21, FRANK COLORADO.

T. 9 S., R. 25 E.

No.	Course,	Distance	Latitudes, Departures.			
			North,	South,	East,	West.
Beg. Cor. 1,	N. 52° 45' W.	24.48	14.82	.....	.....	.59.49
2,	S. 4° 55' W.	28.38	.....	28.27	.....	2.43
3,	S. 25° 40' W.	7.43	.....	6.70	.....	3.32
4,	S. 66° 27' W.	24.27	.....	9.70	.....	22.25
5,	S. 86° 05' W.	24.35	.....	1.66	.....	24.29
6,	S. 27° 05' W.	23.97	.....	21.34	.....	10.91
7,	N. 77° 05' E.	87.69	19.60	.....	85.47	.....
8,	N. 4° 57' W.	33.38	33.25	.....	.....	2.88
	Totals,		67.67	67.67	85.47	85.47

Total area of claim 196.19 acres.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Alfredo R. Talamantes

United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the allotments
No. 265, No. 16, Atchie, No. 266, No. 19, War-Atze, No. 278, No. 31, McCook, No. 270, No. 23
Pantaloan, No. 269, No. 22, Weaver Ignatio, No. 267, No. 20, Jimmy Colorow, and
No. 268, No. 21, Frank Colorado, situated in Twp. 10 S., Rs. 22, 23, 24 and 25 E.
Lat. 9 S., Long. 25 E. Salt Lake Base and Meridian, Utah, showing the respective capacities in which they acted.

William H. Dunn, Chainman.

Vinson F. Davis, Chainman.

Martin Rasmussen, Moundman.

, Moundman.

, Axman.

, Axman.

John Burt, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Alfredo R. Talamantes,

United States Deputy Surveyor, in surveying all
those parts or portions of the allotments N. 265, No. 16, Atchie; No. 266, No. 19, War-Atze
278, No. 31, McCook, No. 270, No. 23, Pantaloan, No. 269, No. 22, Weaver Ignatio,
267, No. 20, Jimmy Colorow, and No. 268, No. 21, Frank Colorado, situated in
0 S., Rs. 22-23-24 & 25 E., T. 9 S., R. 25 E. of the Salt Lake
Base and meridian, in the state of Utah, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Utah

William H. Dunn, Chainman.

Vinson F. Davis, Chainman.

Martin Rasmussen, Moundman.

, Moundman.

, Axman.

, Axman.

, Flagman.

Subscribed and sworn to before me this 22nd.

day of December, 1906

SEAL

Alfredo R. Talamantes

U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Alfredo R. Talamantes, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Thomas Hull, United States Surveyor General for Utah, bearing date of the 3rd. day of November, 1905, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the allotments No. 265, No. 16, At re No. 266, No. 19, War-Atze, No. 278, No. 31, McCook, No. 270, No. 23, Pantaloons, No. 269, No. 22, Weaver Ignatio, No. 267, No. 20, Jimmy Colorow, and No. 268, No. Frank Colorado, situated in T. 10 S., R. 22-23-24 & 25 E. and T. 9 S., R. 25 of the Salt Lake Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Alfredo R. Talamantes
United States Deputy Surveyor

Subscribed by said Alfredo R. Talamantes, and sworn to before me,

this 17th day of April, 1906.



Thomas Hull
U.S. Surveyor General for Utah

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 16, 1906

The foregoing field notes of the survey of Allotment No. 268, No. 21 Frank Colorow in Township No. 9 South, Range No. 25 East of the Salt Lake Base and Meridian, Utah,

executed by Alfredo R. Talamantes and Harvey D. Heist, under their contract No. 292, dated November 3, 1905, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Hull
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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AUG 31 1906

FIELD NOTES

OF THE SURVEY OF THE

SOUTH, WEST, AND NORTH BOUNDARIES

of

Township No. 4 South, Range No. 20 East,

Of the Salt Lake Base and Meridian,

STATE OF UTAH

AS SURVEYED BY

Cott P. Stewart and John R. Stewart, United States Deputy Surveyors

under their Contract No. 295, dated April 30, 1906.

Survey commenced June 7, 1906.

Survey completed June 13, 1906.

	Length	Class
South	6.07.79'	
West	5.69.20'	
North	3.06.16'	

NAMES AND DUTIES OF ASSISTANTS.

Hervey Fletcher Chainman

Leo A. Snow Chainman

Paul Ashworth Moundman

Quinby Stewart Moundman

Alden Oscar Gledhill Axman

John W. Pickering Axman

John R. Llewellyn Flagman

BOOK A-335.

INDEX DIAGRAM.

Township 4 South, Range 20 East.

22	21	19	18			
7	6	5	4	3	2	1
16	7	8	9	10	11	12
14	18	17	16	15	14	13
13	10	20	21	22	23	24
12	30	29	28	27	26	25
11	31	32	33	34	35	36
	9	8	7	6	4	3

Meanders Page.

PRELIMINARY OATHS OF ASSISTANTS.

WE, Harvey Fletcher and Geo. P. Snow:

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we may measure, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the S.W. and fractional N. & E. sides of T. 4 S.R. 20 E.; S. Id., T. 4 S.R. 19 E.; E. Id., T. 5 S.R. 19 E.; W. Id., T. 5 S.R. 20 E. and South Boundary of T. 3 N.R. 20 E. of Mill Lake Base and Meridian, Utah.

Harvey Fletcher, Chainman
Geo. P. Snow, Chainman

Subscribed and sworn to before me this 7th day of June, 1906



John R. Stewart
U.S. Deputy Surveyor

WE, Paul Ashworth and Dunby Stewart:

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the S.W. and fractional N. & E. sides of T. 4 S.R. 20 E.; S. Id., T. 4 S.R. 19 E.; E. Id., T. 5 S.R. 19 E.; W. Id., T. 5 S.R. 20 E. and South Boundary of T. 3 N.R. 20 E. of Mill Lake Base and Meridian, Utah.

Paul Ashworth, Moundman
Dunby Stewart, Moundman

Subscribed and sworn to before me this 7th day of June, 1906



John R. Stewart
U.S. Deputy Surveyor

WE, Alden Oscar Gledhill and John W. Pickering:

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the S.W. and fractional N. & E. sides of T. 4 S.R. 20 E.; S. Id., T. 4 S.R. 19 E.; E. Id., T. 5 S.R. 19 E.; W. Id., T. 5 S.R. 20 E. and South Boundary of T. 3 N.R. 20 E. of Mill Lake Base and Meridian, Utah.

Alden Oscar Gledhill, Axman
John W. Pickering, Axman

Subscribed and sworn to before me this 7th day of June, 1906



John R. Stewart
U.S. Deputy Surveyor

I, John R. Newell, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the S.W. and fractional N. & E. sides of T. 4 S.R. 20 E.; S. Id., T. 4 S.R. 19 E.; E. Id., T. 5 S.R. 19 E.; W. Id., T. 5 S.R. 20 E. and South Boundary of T. 3 N.R. 20 E. of Mill Lake Base and Meridian, Utah.

John R. Newell, Flagman

Subscribed and sworn to before me this 7th day of June, 1906



John R. Stewart
U.S. Deputy Surveyor

~~From W. & Pound, Inc., N.Y.~~

Chains Survey commenced June 7, 1906, and executed with a Young and Sons light mountain transit No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah, June 1, 1906.

I examine the adjustments of the transit, and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications, resulting from solar observations made during p.m. and a.m. hours with a meridian determined by observations on Polaris, I proceed as follows:

At the cor. of Tps. 3 and 4 S., Rs. 19 and 20 E., which is a sandstone, $6 \times 12 \times 12$ ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

Latitude $40^{\circ} 30' 35''$ N., longitude $109^{\circ} 44' 13''$ W., I set off $40^{\circ} 30' N.$, on the lat. arc; $22^{\circ} 46' N.$, on the decl. arc; and at 3 h. 58 m p.m., l.m.t., I determine with the solar, a meridian, and mark a point thereof on a stone, firmly set in the ground, 5.00 chs. N. of the cor.

June 7, 1906.

June 8, 1906: At 2 h 26 m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined, on a peg driven in the ground, 5.00 chs. N. of my station.

At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 33.6'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone already set, 5.00 chs. N. of the cor.; on which the meridian falls 0.43 ins.

Random West Boundary of T.4 S., R.20 E.-Continued.

Chains east of the mark determined by the solar. At 6 h 59m a.m., l.m.t., I set off $40^{\circ} 30' N.$, on the lat. arc; $22^{\circ} 49' N.$, on the decl. arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.35 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectfully about $0^{\circ} 23'$ west and $0^{\circ} 18'$ east of the meridian established by Polaris observation; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m., l.m.t., is N. $16^{\circ} 16' W.$, the angle thus determined gives the mag. decl. N. $16^{\circ} 16' E.$

- From the Tp. cor. already described I run South, along West bdy. of Tp., on random line setting temp. $\frac{1}{2}$ sec. and sec. cors. at intervals of 40.00 chs.
- 34.53 Intersect Uintah Indian Reservation Boundary; thence cross Reservation on blank line.
- 43.27 Intersect Uintah Indian Reservation Boundary. and at 480.00 chs. Set temp. cor. of Tps. 4 and 5 S., Rs. 19 and 20 E.

June 8, 1906.

June 9, 1906: At 6 h 59 m a.m., l.m.t., I set off $40^{\circ} 25' N.$, on the lat. arc; $22^{\circ} 55' N.$, on the decl. arc; and determine

Cont'd. Run a N.E. T. 4 S. 12 W. - Continue 17 miles.

Chains a meridian with the solar at the cor. of Tps. 4 and 5 S.,
Rs. 20 and 21 East, which is a sandstone, 5x10x10 ins.
above ground, firmly set, and mkd. and witnessed as de-
scribed by the surveyor general.

Thence I run

West, on true line along South Bdy. of Tp., bet. secs.

1 and 36.

Over mountainous land; through dense sage brush and
scattering scrub cedars.

Asc.

1.00 Top of spur, 5 ft. above Tp. cor., bears N. and S.
Desc.

3.00 Bottom of hollow, 30 ft. below spur, course S.
Asc.

8.00 Top of ridge, 30 ft. above hollow, bears N. and S.
Desc.

14.00 Bottom of hollow, 50 ft. below ridge, course S.
Asc.

19.00 Top of ridge, 50 ft. above hollow, bears N. and S.
Desc.

29.00 Bottom of hollow, 60 ft. below ridge, course S.
Asc.

34.00 Top of ridge, 30 ft. above hollow, bears N. and S.
Desc.

39.50 Bottom of hollow, 60 ft. below ridge, course S.
Asc.

40.00 Set a quartzite stone, 16x12x5 ins., 11 ins. in the ground,
N. 9° 30' W., 96 lks.
dist. mkd. $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face;
from which

A cedar, 6 ins. dia., bears N. 9° 30' W., 96 lks.
dist. mkd. $\frac{1}{4}$ S 36 B T.

A cedar, 6 ins. dia., bears S. 2° 45' W., 52 lks.

44.00 Top of ridge, 50 ft. above hollow, bears N. and S.
Desc.

CHAINS		DESCRIPTION
55.25		Bottom of hollow, 150 ft. below ridge, course SW.
	Asc.	
63.00		Top of spur, 100 ft. above hollow, bears NE and SW.
	Desc.	
63.00		Leave timber, bears NE and SW.
69.25		Bottom of hollow, 100 ft. below ridge, course SW.
	Asc.	
74.00		Top of ridge, 200 ft. above hollow, bears NE and SW.
	Desc.	
78.23		Bottom of hollow, 200 ft. below ridge, course SW.
	Asc.	
80.00		Set a quartzite stone, 18x9x6 ins. 12 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, mkd. with 1 notch on E. and 5 notches on W. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
		Land, mountainous.
		Soil, clay and gravelly; 3rd rate.
		Timber, cedar.
		Undergrowth, sage brush.
		A very little grass.
		Mountainous land, or land covered with dense undergrowth.
80.00 chs.		
		West, on a true line bet. secs. 2 and 35.
		Over mountainous land; through dense sage brush.
	Asc.	gradually.
15.00		Top of broad ridge, 25 ft. above sec. cor., bears NE and SW.
	Desc.	
23.00		Begin steep descent, bears N. 40° E. and S. 40° W.
	Asc.	

South Bdy T.4 S.-R. 20 E. -Cont.

Chs.	
26.25	Ravine, 75 ft. deep, course S.40°W.
29.00	Spur, 75 ft. above ravine, bears N. and S.
Desc.	
30.75	Same Ravine, 75 ft. deep, course N.
31.50	Spur, 50 ft. above Ravine, bears N.20°W. and S.20°E.
Desc.	
33.00	Same Ravine, 50 ft. deep, course SW.
Asc.	
36.00	Top of ridge, 100 ft. above Ravine, bears N. and S.
Desc.	
39.00	Road from Vernal to White Rocks, bears N. and S.
40.00	Set a sandstone, 18x14x5 ins., 12 ins. in the ground, for sec.cor.mkd. on N.face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N.of cor.
40.50	Bottom of canon, 200 ft. below ridge, course S.
Asc.	
44.50	Top of ascent, 250 ft. above canon, bears N. and S.
Thence over rolling mesa.	
80.00	Set a quartzite stone, 18x10x6. ins., 12 ins. in the ground, for cor.of secs. 2,3,34, and 35, mkd. with 2 notches on E. and 4 notches on W. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor.
Land,	mountainous and rolling mesa.
Soil,	clay loam and rocky; 2nd and 4th rate.
No timber.	
Undergrowth,	sage brush.
Good grass for grazing.	
Mountainous land, or land covered with dense undergrowth,	
80.00 chs.	
June 9, 1906:	At this cor. I set off 22° 55' N., on the decl. arc; and at 0 h 2 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 25' N., which is the proper lat. nearly.

Section of T 4 S 7 20 W m 1

Chs.	
	West, on a true line bet. secs. 3 and 34.
	Over rolling mesa; through dense sage brush.
36.00	Leave mesa, bears N. and S.
	Enter scattering cedar timber, bears N. and S.
	Descend abruptly over large boulders.
40.00	Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for ½ sec. cor., mkd. ¼ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
45.00	Bottom of hollow, 300 ft. below mesa, course S.
	Leave boulders. Asc.
59.50	Top of ridge, 300 ft. above hollow, bears N. 30° W. and S. 30° E.
	Desc.
75.00	Bottom of hollow, 500 ft. below ridge, course SE.
	Asc.
77.00	Top of spur, 50 ft. above hollow, bears N. and S.
	Desc.
80.00	Set a sandstone, 18x8x7 ins., 12 ins. in the ground, for cor. of secs. 3, 4, 33, and 34, mkd. with 3 notches on E. and 3 notches on W. edges; from which
	A cedar, 4 ins. dia., bears N. 45° E., 35 lks. dist. mkd. T 4 S R 20 E S 34 B T.
	A cedar, 5 ins. dia., bears S. 65° 15' E., 112 lks. dist. mkd. T 5 S R 20 E S 3 B T.
	A cedar, 6 ins. dia., bears S. 32° 15' W., 22 lks. dist. mkd. T 5 S R 20 E S 4 B T.
	A cedar, 6 ins. dia., bears N. 68° W., 23 lks. dist. mkd. T 4 S R 20 E S 33 B T.
	Land, mountainous and rolling mesa.
	Soil, clay loam and rocky; 2nd and 4th rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,

S. 20° E. - Continued.

Chains 80.00 chs.

West, on a true line bet. secs. 4 and 33.

Over mountainous land; through heavy timber.

Desc.

1.00 Bottom of hollow, 10 ft. below sec. cor., course SE.

Asc.

19.00 Top of spur, 75 ft. above sec. cor., bears N. and S.

Desc.

32.00 Bottom of hollow, 100 ft. below spur, course S. 20° E.

Asc.

37.00 Top of spur, 100 ft. above hollow, bears NW and SE. Desc.

Enter dense sage brush, bears N. and S.

39.00 Bottom of hollow, 100 ft. below spur, course SE. Asc.

Leave heavy and enter scattering cedars, bears N. and S.

40.00 Set a sandstone, 16x12x6 ins., 11 ins. in the ground, for
 $\frac{1}{2}$ sec. cor. mkd. on N. face; and raise a mound of stone,
 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

61.25 Old road, bears N. 75° E. and S. 75° W.

62.00 Top of spur, 75 ft. above hollow, bears N. 15° E. and S. 15°
 W.

Desc.

68.00 Bottom of hollow, 100 ft. below spur, course SW.

Asc.

69.00 Old road, bears N. 30° E. and S. 30° W.

80.00 Set a sandstone, 15x8x5 ins., 10 ins. in the ground, for
 cor. of secs. 4, 5, 32, and 33, mkd. with 4 notches on E. and 2
 notches on W. edges; and raise a mound of stone, 2 ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, scrubby cedar.

Undergrowth, sage brush.

S. 4th, Rangt 4 S. 20° E. - 1 mi. N.

- Chains Good grass for grazing.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

June 9, 1906.

June 10, 1906: At 8 h 59 m a.m., l.m.t., I set off $40^{\circ} 25' N.$, on the lat. arc; $23^{\circ} 00' N.$, on the decl. arc; and determine a meridian with the solar at the cor. of secs. 4, 5, 32, and 33.

Thence I run

West, on true line bet. secs. 5 and 32.

Over mountainous land; through dense sage brush.

Asc.

5.00 Top of spur, 60 ft. above sec. cor., bears N. and S.

Desc.

14.00 Bottom of hollow, 100 ft. below spur, course S.

Asc.

20.75 Top of steep ascent, bears N. and S. Ascent more gradual.

25.50 Top of spur, 200 ft. above hollow, bears N. and S.

Desc.

36.50 Bottom of hollow, 200 ft. below spur, course S. $15^{\circ} W.$

Asc.

37.50 Old road, bears N. and S.

40.00 Set a quartzite stone, $15 \times 8 \times 8$ ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, $\frac{1}{4}$ of cor.

49.00 Top of steep ascent, bears N. and S. Ascend gradually.

55.00 Top of ridge, 200 ft. above hollow, bears S. $80^{\circ} E.$ and W. Ascend top of ridge.

S i h T - S R - I s t a t i o n

Chains

- 63.00 Trail to Deep Creek, bears S.80°W. and S.80°E.
- 80.00 Set a sandstone, 16x9x4 ins., 11 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, mkd. with 5 notches on E. and L. notch on W. edges; from which
 A cedar, 6 ins. dia., bears N.71°30'W., 184 lks. dist. mkd. T 4 S R 20 E S 31 B T.
 No other trees within limits; raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
 Land, mountainous.
 Soil, gravelly and clay; 3rd rate.
 No timber.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous land, or land covered with dense undergrowth.
 ✓ 80.00 chs.
-
- West, on a true line bet. secs. 6 and 31.
 Over mountainous land; through scattering cedar timber and dense shadscales and sage brush.
 Ascend ridge.
 21.50 Top of ridge, 50 ft. above sec. cor., bears N. and S.
 Desc.
 32.50 Bottom of hollow, 200 ft. below ridge, course S.10°W.
 Asc.
 33.00 Old road, bears N.15°E. and S.15°W.
 34.00 Top of spur, 20 ft. above hollow, bears N. and S.
 Desc.
 40.00 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for ¼ sec. cor. mkd. ¼ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
 45.00 Bottom of hollow, 20 ft. below spur, course S.
 Asc.

South Bdy T.4 S.R. 20E -Continued

Chains

57.00 Top of spur, 20 ft. above hollow, bears N. and S.

Desc.

58.00 Bottom of hollow, 60 ft. below spur, course S.

Asc.

66.50 Spur, 60 ft. above hollow, bears N. and S.

Desc.

74.75 Bottom of hollow, 50 ft. below ridge, course S. 20° W.

Asc.

77.50 Top of knoll at end of spur, bears N. 20° E.

Desc.

87.79 Intersect Random west bdy. 2.06 chs. North of the temp. cor. of Tps. 4 and 5 S., Rs. 19 and 20 E., which I now destroy and set point of intersection

Set a sandstone, 20x12x9 ins., 15 ins. in the ground, for cor. of Tps. 4 and 5 S., Rs. 19 and 20 E., mkd. with 4 S on NE; 20 E on SE; 5 S on SW; and 19 E on NW faces; with 6 notches on each edge; and raise a mound of stone, 2 ft. base, 1½ ft. high, S. of cor.

Land, mountainous

Soil, sandy and gravelly loam; 2nd and 3rd rate.

Timber, scrubby cedar.

Undergrowth, sage brush and shadscales.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth, 87.79 chs.

June 10, 1906: At this cor. I set off 23° 00' N. on the decl. arc; and at 11h 59m a.m.l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 25' N., which is the proper lat. nearly.

West Boundary of T. 4 S., R. 2120 E. - Continued

Chains	
	From the permanent cor. of Tps. 4 and 5 S., Rs. 19 and 20 E., just established I run North, along west bdy. of Tp., on true line bet. secs. 31 and 36.
	Over mountainous land; through scattering timber and dense sage brush and shadscales.
	Desc.
25.00	Bottom of hollow, 40 ft. below Tp. cor., course SE.
	Asc.
40.00	Top of spur, 100 ft. above hollow, bears N. 60° W. and S. 60° E. Set a sandstone, 18x8x4 ins., 12 ins. in the ground, for sec. cor.. mkd. $\frac{1}{4}$ on W. face; from which A cedar, 5 ins. dia., bears N 26° E., 70 lks. dist. mkd. $\frac{1}{4}$ S 31 B T. A cedar, 6 ins. dia., bears N. 18° W., 82 lks. dist. mkd. $\frac{1}{4}$ S 36 B T.
	Desc.
42.00	Bottom of hollow, 50 ft. below spur, course E..
	Asc.
44.00	Top of spur, 500 ft. above hollow, bears E. and W.
	Desc..
62.00	Bottom of hollow, 20 ft. below sec. cor., course S. 30° E.
	Asc.
80.00	Set a sandstone, 18x9x5 ins., 12 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, mkd. with 5 notches on N. and 1 notch on S. edges; from which A cedar, 6 ins. dia., bears S. 4° 30' E., 284 lks. dist.; mkd. T 4 S R 20 E S 31 B T.
	No other trees, within limits; raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous.

West half T 11 S R 20 E 111 mm

- Chains. Soil, gravelly; 3rd rate.
- Timber, cedar.
- Undergrowth, sage brush and shadscales.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth,
80.00 chs.
-
- North, on true line bet. secs. 25 and 30.
- Over mountainous land; through scattering timber and
scattering undergrowth.
- Asc.
- 19.00 Top of spur, 100 ft. above sec. cor., bears N. 75° W. and
S. 75° E.
- Desc.
- 28.00 Bottom of hollow, 100 ft. below spur, course S. 60° E.
- Asc.
- 34.00 Top of spur, 50 ft. above hollow, bears N. 60° W. and S. 60°
E.
- Desc.
- 38.00 Bottom of hollow, 15 ft. below spur, course S. 60° E.
- Asc.
- 40.00 Set a sandstone, 16x10x4 ins., 11 ins. in ground for $\frac{1}{4}$ sec., cor.
mkd. $\frac{1}{4}$ on W. face, from which
- A cedar, 8 ins. bears S. 3° E., 47 lks. dist.,
mkd. $\frac{1}{4}$ S 30 B T.
- A cedar, 9 ins. dia., bears S. 21° 30' W., 50 lks.
dist.. mkd. $\frac{1}{4}$ S 25 B T.
- On top of spur, 50 ft. above hollow, bears NW and SE.
- Desc.
- 47.00 Bottom of hollow, 40 ft. below spur, course S. 25° E.
- Asc.
- 56.00 Top of spur, 100 ft. above hollow, bears NW and SE.
- Desc.

West Bdy T 4 S R 20° E -Continued.

Chains. Bottom of hollow, 100 ft. below spur, course S. 65° E.,
 Asc. Desc.
 61.00 Top of spur, 120 ft. above hollow, bears N. 60° W. and S. 60°
 E. Desc.
 68.70 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for
 cor. of secs. 19, 24, 25, and 30, mkd. with 4 notches on N. and
 2 notches on S. edges; and raise a mound of stone, 2 ft.
 base, 1½ ft. highn. of cor.
 Land, mountainous.
 Soil, clay and gravelly; 3rd rate.
 Timber, cedar.
 Undergrowth, sage, brush and shadscales.
 Good grass for grazing.
 Mountainous land. 80.00 chs.

June 10, 1906.

June 11, 1906. At 6 h. 59m a.m. l.m.t., I set off 40° 27' N.,
 on the lat. arc; 23° 4' N., on the decl. arc; and determine
 a meridian with the solar at the cor. of secs. 19, 24,
 25, and 30.

Thence I run

North, on true line bet. secs. 19 and 24.

Over mountainous land; through scattering timber and
 scattering undergrowth.

Desc.

22.00 Bottom of hollow, 140 ft. below sec. cor., course S. 30° E.

Asc.

28.25 Top of spur, 75. ft. above hollow, bears N. 30° W. and S. 30° E.

Desc.

40.00 Set a sandstone, 18x14x4 ins., 12 ins. in the ground, for

- Chains. $\frac{1}{2}$ sec.cor., mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 48.50 Bottom of hollow, 75 ft. below spur, course SE.
- Asc.
- 62.10 Sandstone and conglomerate ledge 40 ft. high, bears N. 30° E. and S. 30° W.
- 78.00 Top of spur, 400 ft. above sec.cor., bears N. 60° W. and S. 60° E.
- Descend.
- 80.00 Point 15 ft. below spur. Set a quartzite stone, 18x12x4. ins., 12 ins. in the ground, for cor. of secs. 18, 18, 19, and 24, mkd. with 3 notches on N., and S. edges; from which
- A cedar, 8 ins. dia., bears N. 39° E., 80 lks. dist. mkd. T 4 S R 20 E S 18 B T.
 - A cedar, 10 ins. dia., bears N. 8° W., 52 lks. dist. mkd. T 4 S R 19 E S 13 B T.
- No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Land, mountainous.
- Soil, gravelly; 3rd rate.
- Timber, cedar and pinon pine.
- Undergrowth, sage brush and shadscales.
- Good grass for grazing.
- Mountainous land, 80.00 chs.
- North, on true line bet. secs. 13 and 18.
- Over mountainous land; through scattering timber and dense undergrowth.
- Desc.
- 7.00 Bottom of hollow, 50 ft. below sec.cor., course SE.
- Asc.
- 13.00 Begin abrupt ascent, bears NW. and SE.

West bdv. T. 4 S. R. 20 E. -Continued.

- | | |
|---------|---|
| Chains. | |
| 16.00 | Top of spur, 300 ft. above hollow, bears NW and SE.
Desc. |
| 16.10 | Enter heavy timber, bears NW and SE. |
| 23.00 | Bottom of hollow, 30 ft. below spur, course S. 10° E.
Asc. |
| 37.00 | Same hollow, course S. 10° W.
Asc. |
| 40.00 | Set a sandstone, 16x8x8 ins., 11 ins. in the ground, for
$\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on W. face; from which
A cedar, 10 ins. dia., bears N. 25° E., 95 lks.
dist.. mkd. $\frac{1}{4}$ S 18 B. T.
A cedar, 6 ins. dia., bears S. 89° 55' W., 7 lks.
dist.. mkd. $\frac{1}{4}$ S 13 B. T. |
| 47.50 | Top of ridge, 50 ft. above hollow, bears N. 10° E. and S. 10° W.
Desc. |
| 63.00 | Bottom of hollow, 100 ft. below spur, course W.
Asc. |
| 73.00 | Top of spur, 60 ft. above hollow, bears E. and W.
Desc. |
| 77.00 | Bottom of hollow, 30 ft. below spur, course W.
Asc. |
| 80.00 | Set a sandstone, 18x9x6 ins., 12 ins. in the ground, for
cor. of secs. 7, 12, 13, and 18, mkd. with 2 notches on N.
and 4 notches on S. edges; from which
A cedar, 9 ins. dia., bears N. 31° E., 21 lks.
dist.. mkd. T 4 S R 20 E S 7 B. T.
A cedar, 11 ins. dia., bears S. 46° E., 34 lks.
dist.. mkd. T 4 S R 20 E S 18 B. T.
A cedar, 7 ins. dia., bears S. 36° W., 54 lks.
dist.. mkd. T 4 S R 19 E S 13 B. T.
A cedar, 8 ins. dia., bears N. 44° W., 74 lks.
dist.. mkd. T 4 S R 19 E S 12 B. T. |

June 11, 1906: At the noon hour the sky is overcast and solar observations are impossible. Land mountainous.

W.M. T. & R. P. D. - Cont'd

Chains	Soil gravelly; 3d rate. Timber cedar. Undergrowth sagebrush and snadscale. • Mountainous land, heavily timbered 80:00 chs.
	North, on a true line bet. secs. 7 and 12.
	Over mountainous land; through heavy timber.
	Asc.
3.00	Top of spur, 25 ft. above sec. cor., bears E. and W.
	Desc.
20.00	Bottom of hollow, 150 ft. below spur, course SW.
	Ascend bottom of hollow.
40.00	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. $\frac{1}{4}$ on W. face; from which
	A cedar, 9 ins. dia., bears N. 66° E. 62 lks. dist.. mkd. $\frac{1}{4}$ S 7 B T.
	A cedar, 10 ins. dia., bears N. 12° W., 75 lks. dist.. mkd. $\frac{1}{4}$ S 12 B T.
41.00	Leave hollow. Ascend.
58.00	Spur, 50 ft. above hollow, bears N. 60° E. and S. 60° W.
	Desc.
76.50	Bottom of hollow, 500 ft. below spur, course S. 25° W.
	Asc.
80.00	Set a quartzite stone, 22x9x7 ins., 16 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mkd. with 1 notch on N. and 5 notches on S. edges; from which
	A cedar, 11 ins. dia., bears N. 70° E., 35 lks. dist.. mkd. T 4 S R 20 E S 6 B T.
	A cedar, 6 ins. dia., bears S. 64° E., 12 lks. dist.. mkd. T 4 S R 20 E S 7 B T.
	A cedar, 7 ins. dia., bears S. 60° W., 29 lks. dist.. mkd T 4 S R 19 E S 12 B T.
	A cedar, 7 ins. dia. bears N. 26° W., 91 lks. dist.. mkd T 4 S R 19 E S 1 B T.
	Land mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar and pinon pine.

west Bdv.T. 4 S. , R. 20 E.--Continued.

chains. Good grass for grazing.

Mountainous or heavily timbered land 80.00 chs.

North on a true line bet.secs.1 and 6,
Over mountainous land; through heavy timber.

Asc.

34.00 Top of ridge, 600 ft.above sec.cor., bears N.30° E.
and S.30° W. Desc.

34.67 Intersect Uintah Indian Reservation bdy.,
Set a quartzite stone 16x7x7 ins., 11 ins.in the ground
for closing cor.of fractl.secs.1 and 6; mkd.C C on S.,
U I R on N., 6 grooves on E. and W.faces; from which
A cedar 10 ins.dia.bears S.39° 30'E.46 lks.dist.

mkd T 4 S R 20 E S .6 B T

A cedar 9 ins.dia.bears S.13° W. 56 lks.dist.

mkd. T 4 S R 19 E S 1 B T

From this cor.the 30th.mile cor.on the Res.bdy., which
is a sandstone 5x16x14 ins.above ground, firmly set
and mkd.and witnessed as described by surveyor gen-
eral, bears as follows:

N.24° E.9.13 chs.to 30th mile cor.

Thence across Reservation on blank line.

43.41 Intersect bdy.of Uintah Indian Reservation,
Set a quartzite stone 18x12x4 ins., 12 ins.in the
ground for closing cor.of fractl.secs.1 and 6; mkd.C C
on N., U I R on S., 6 grooves on E. and W.faces; from
which

A cedar 9 ins.dia.bears N.88° 30'E. 52 lks.dist.

mkd. T 4 S R 20 E S 6 B T

A cedar 8 ins.dia.bears N.47° W. 48 lks.dist.

mkd. T 4 S R 19 E S 1 B T

West Bdy. T. 4 S., R. 20 E.--Continued.

Chains From this cor. the 30th mile cor. on the Reservation bdy. bears as follows:

S.83° 36' E. 3.76 chs. to 30th mile cor. on bdy.

44.00 Bottom of hollow, 150 ft. below ridge, course SW.
Asc.

46.00 Top of spur, 20 ft. above hollow, bears E. and S.60° W.
Desc.

60.75 Bottom of hollow, 250 ft. below spur, course W. Asc.

72.25 Top of spur, 100 ft. above hollow, bears E. and W.
Desc.

77.94 The cor. of Tps. 3 and 4 S., Rs. 19 and 20 E., heretofore described.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar and pinon pine.

Good grass for grazing.

Mountainous or heavily timbered land 69.20 chs.

June 11, 1906.

June 12, 1906: At 6 h.59m a.m.l.m.t. I set off 40° 30' N. on the lat. arc; 23° 9' N. on the decl. arc; and determine a meridian with the solar, at the closing cor. of secs. 3 and 34 on the bdy. of the Fort Thornburg Military Reservation, which is a sandstone 6x12x5 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general. Thence I run west on true line bet. brcl. secs. 3 and 34, over mountainous land; through heavy timber.

Asc.

6.03 Set a sandstone 16x9x5 ins., 11 ins. in the ground, for cor. of secs. 3, 4, 33, and 34, mkd. with 3 notches on E. and W. edges; from which

N. 20° E., S. 20° E., N. 30° E., S. 30° E.

Chains t.c. of sec. 3, 4, 33, and 34, mkd. with 5 notches each; end wedges, from which a line is run through notch 10.

A cedar, 8 ins. dia., bears N. 26° E., 64 lks.
dist. mkd. T 3 S R 20 E S 3 B T.

A cedar, 10 ins. dia., bears S. 39° E., 45 lks.
dist. mkd. T 4 S R 20 E S 3 B T.

A cedar, 12 ins. dia., bears S. 33° W., 54 lks.
dist. mkd. T 4 S R 20 E S 4 B T.

A cedar, 14 ins. dia., bears N. 57° 30' W., 71
lks. dist. mkd. T 3 S R 20 E S 33 B T.

Land, mountainous.

Soil, gravelly; 3rd. rate.

Timber, cedar and pinon pine.

No grass.

Mountainous or heavily timbered land, 6.03 chs.

From the cor. of secs. 3, 4, 33, and 34, above described, I run

West, on random line along north bdy. of Tp., setting temp. at sec. and sec. cors. at intervals of 40.00 chs., and at 240.13 chs. intersect W. bdy. T. 3 S., R. 20 E., 3.92 chs. N. of the ccr. of Tps. 3 and 4. So, Rs, 19 and 20 E., heretofore described.

The falling being out of limits I return to the cor. of secs. 3, 4, 33, and 34, to establish the random line as a true line, therefore I run

West, on true line along north bdy. of Tp.

Bet. secs. 4 and 33.

Over mountainous land; through heavy timber.

Asc. gradually.

37.00 Top of spur, 200 ft. above sec. cor., bears N. 20° W. and S. 20° E.

No. 11 v T S 17 120E - Cont'd.

Chains	Desc.
39.50	Bottom of hollow, 200 ft. below spur, course S. 20° E. Asc.
40.00	Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; from which A cedar, 6 ins. dia., bears N. 19° W., 48 lks. dist.. mkd. $\frac{1}{4}$ S 33 B T. A cedar, 6 ins. dia., bears S. 24° E., 35 lks. dist.. mkd. $\frac{1}{4}$ S 4 B T.
45.00	Leave heavy timber and enter scattering timber and dense undergrowth, bears N. and S.
47.50	A small spring bears N. about 5.00 chs. dist..
75.00	Begin steep ascent, bears N. and S.
78.00	Bottom of hollow, course N. 70° E. Asc. abruptly.
80.00	Set a quartzite stone, 18x10x7 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 32, and 33, mkd. with 4 notches on E. and 2 notches on W. edges; from which A cedar, 10 ins. dia., bears N. 38° 10' E., 144 lks. dist.. mkd. T 3 S R 20 E S 33 B T. A cedar, 14 ins. dia., bears N. 15° 30' W., 58 lks. dist.. mkd. T 3 S ,R 20 E S 32 B T. No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous. Soil, clay and gravelly loam; 2nd rate. Timber, cedar. Undergrowth, sage and buck brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs. June 12, 1906: At the noon hour the sky is overcast and solar observations are impossible.

North bdy T. 4 S., R. 20E

Chains	West, on true line bet. secs. 5 and 32.
	Over mountainous land; through scattering timber and dense undergrowth.
	Asc. abruptly.
18.00	Leave timber, bears N. and S.
23.50	Top of ridge, 1200 ft. above sec. cor., bears N. and S.
	Desc.
38.00	Enter scattering timber, bears N. and S.
40.00	Set a quartzite stone, 16x12x6 ins., 11 ins. in the ground, for $\frac{1}{2}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; from which
	A cedar, 8 ins. dia., bears N. 79° W., 65 lks.
	dist. mkd. $\frac{1}{4}$ S 32 B.T.
	A cedar, 4 ins. dia., bears S. 9° W., 8 lks.
	dist. mkd. $\frac{1}{4}$ S 5 B.T.
44.00	Bottom of canon, 1200 ft. below ridge, course S.
	Asc.
46.00	Leave timber, bears N. and S.
55.00	Top of ridge, 1000 ft. above canon, bears N. and S.
	Desc.
80.00	Set a quartzite stone, 18 x 9 x 5 ins., 12 ins. in the ground, for cor. of secs. 5, 6, 31, and 32, mka. with 5 notches on E. and 1 notch on W. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous.
	Soil, loam and rocky; 1st and 4th. rate.
	Timber, cedar.
	Undergrowth, sage and buck brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,
80.00	chs.

June 12, 1906.

North bdy T. 4 S., R. 20 E. -Continued.

Chains	
	June 13, 1906: At 7 h 0 m a.m., l.m.t., I set off $40^{\circ}30'N.$, on the lat. arc; $23^{\circ}12'N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 5, 6, 31, and 32.
	Thence I run
	West on true line bet. secs. 6 and 31.
	Over mountainous land; through scattering sage brush.
	Desc.
5.00	Bottom of hollow, 200 ft. below sec. cor., course S. $60^{\circ}W.$
	Asc.
5.25	Enter scattering timber, bears N. $60^{\circ}E.$ and S. $60^{\circ}W.$
6.00	Top of spur, 15 ft. above hollow, bears N. and S.
	Desc.
7.50	Bottom of hollow, 20 ft. below spur, course S.
	Asc.
17.00	Top of spur, 300 ft. above hollow, bears N. $60^{\circ}W.$ and S. $60^{\circ}E.$
	Desc.
17.20	Leave timber, bears N. and S.
22.50	Bottom of swale, 20 ft. below spur, course S. $60^{\circ}E.$
	Asc.
27.50	Trail, bears N. and S.
29.00	Top of ridge, 60 ft. above swale, bears N. and S.
	Desc.
40.00	Bottom of hollow, 60 ft. below ridge, course S.
	Set a sandstone, 18x8x7 ins., 12 ins. in the ground, for sec. cor.. mkd. \pm . on N. face; and raise a mound of stone, 2 ft. base., 1 $\frac{1}{2}$ ft. high, N. of cor.
	Asc.
48.00	Top of ridge, 50 ft. above hollow, bears NE and SW.
	Desc.
63.00	Begin steep descent, bears N. and S.
65.00	Enter heavy timber, bears N. and S.

-23-

North Bdy. of T. 4 S. R. 20 E. - CONTINUED

Chains.

80.13 Intersect W.bdy.of Tp. 3 S., R. 20 E. 3.92 chs.north
of the cor.of Tps.3 and 4 S., Rs.19 and 20 E., hereto-
fore described.

Set a quartzite stone 18x7x5 ins., 12 ins.in the ground
for closing.cor.of Tps.3 and 4 S., R. 20 E., mkd C C
on E., with 6 grooves on N., S., and E. faces; from
which-

A cedar 14 ins.dia.bears N.75° E. 24 lks.

dist., mkd.T 3 S R 20 E S 31 B T

A cedar 18 ins.dia.bears S.50°E. 54 lks.

dist., mkd.T 4 S R 20 E S 6 B T

I destroy all marks on old cor.of Tps.3 and 4 S., Rs.19
and 20 E., that pertain to R.20 E.

Land mountainous.

Soil gravelly and rocky; 2nd and 4th rate.

Timber cedar.

Undergrowth sagebrush.

Good grass for grazing.

Mountainous or heavily timbered land 80.13 chs.

10 a.m.June 13, 1906.

BOUNDARIES OF T.4 S., R. 20 E.

Line	Designated	LATITUDES DEPARTURES, AND CLOSING ERRORS.					
		True Bearing	Dist. chs.	Latitudes		Departures	
				N. chs.	S. chs.	E. chs.	W. chs.
S.bdy.	T.4 S.R.20 E.	West	487.79	.....	.....	.....	487.79
W.bdy.	T.4 S.R.20 E.	North	434.67	434.67	.....	.....	.....
W.bdy.	T.4 S.R.20 E.	N.24°E.	9.13	8.34	.....	3.71	.....
W.bdy.	T.4 S.R.20 E.	N.83°36'W.	3.76	.42	.....	.....	3.74
W.bdy.	T.4 S.R.20 E.	North	38.45	38.45	.....	.....	.....
N.bdy.	T.4 S.R.20 E.	East	246.16	.....	.....	246.16	.....
S.bdy.	Fort T.M.Res.	S.71°26'E.	121.88	.....	38.81	115.54	.....
S.bdy.	Fort T.M.Res.	S. 0°10'E.	119.88	.....	119.88	.35	.....
S.bdy.	Fort T.M.Res.	East	120.00	.....	.....	120.00	.....
E.bdy.	T.4 S.R.20 E.	S.0°50'E.	80.50	.....	80.48	1.17	.....
E.bdy.	T.4 S.R.20 E.	S.0°26'E.	80.07	.....	80.06	.61	.....
E.bdy.	T.4 S.R.20 E.	S.3°21'E.	43.37	.....	43.30	2.53	.....
E.bdy.	T.4 S.R.20 E.	S.0°26'E.	119.60	.....	119.59	.90	.....
Convergency							.57
T o t a l s			481.88	482.12	491.54	491.53	
				481.88	491.53		
Error in lat. and dep.				.24	.01		

GENERAL DESCRIPTION.

This township is rough and mountainous; covered for the most part by a heavy growth of cedar and pinon pine timber. It is watered sufficiently for grazing purposes.

It should be subdivided.



June 13, 1906.

U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by ,

....., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of

owing the respective capacities in which they acted:

.....For final affidavits see book "Z" ¹¹ Tp. 3 N., R. 20 E., Chainman.

....., Chainman.

....., Moundman.

....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted , United States Deputy Surveyor, in surveying all those parts or portions of the

of the

..... meridian, of which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for

..... For final affidavits see book "Z" ¹¹ Tp. 3 N., R. 20 E., Chainman.

....., Chainman.

....., Moundman.

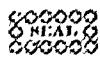
....., Moundman.

....., Axman.

....., Axman.

....., Flagman.

Subscribed and sworn to before me this }
day of , 190 }


NEAL

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of the _____ day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.
For final affidavits see book "Z¹¹" Tp. 3 N., R. 20 E.

of the
meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 190_____

The foregoing field notes of the survey of the South, West, and fractional North boundaries of Township No. 4 South, Range No. 20 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart
under their contract No. 225, dated April 30, 190⁶, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas A. Howell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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B.

BOOK A-335

FILED
AUG 31 1906

FIELD NOTES

Retracement
OF THE SURVEY OF THE

FRAC'L SOUTH BOUNDARY OF THE FORT THORNBURG MILITARY RESERVATION

and

FRACTIONAL EAST BOUNDARY

of

Township No. 4 South, Range No. 20 East,

Of the SALT LAKE BASE AND Meridian,

STATE OF UTAH

AS SURVEYED BY

Scott P. Stewart and John R. Stewart, United States Deputy Surveyors.

their ~~under~~ Contract No. 295, dated April 30, 1906., \$200

retracement survey commenced June 13, 1906., \$100

retracement survey completed June 14, 1906., \$200

6-161

Retracement
E. P. Day

41 76' 11 08 54' 2 m

J

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher Chainman

Leo A. Snow Chainman

Paul Ashworth Moundman

Quinby Stewart Moundman

Alden Oscar Gledhill Axman

John W. Pickering Axman

John R. Llewellyn Flagman

6-151

Volume

#

R0335

19
BOOK A-335

INDEX DIAGRAM.

Township 4 *South*, *Range* 20 *East*

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18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Harvey Fletcher and Leo A. Snow

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of retracement of fractional S. and W. bdy's. Fort Thornbury Military Reservation, T.S.3 and 4 S., R. 20 E.; frac'l E. bdy. Uintah Indian Reservation bdy. T.S.4 and 5 S., R. 19 E.; Utah Wyoming bdy. from 273¹ to 286th mile cors.; also frac'l E. bdy. T.4 S., R. 20 E.; W. bdy. T.3 S., R. 20 E.; N. bdy. T.4 S., R. 19 E.; and E. bdy. T.3 N.R.23 E. of the Salt Lake Base and Meridian, Utah.

Subscribed and sworn to before me this 7th

day of June, 1906.



John P. Stewart
U.S. Deputy Surveyor.

We, Paul Ashworth and Quinby Stewart

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of retracement of fractional S. and W. bdy's. Fort Thornbury Military Reservation, T.S.3 and 4 S., R. 20 E.; frac'l E. bdy. Uintah Indian Reservation bdy. T.S.4 and 5 S., R. 19 E.; Utah Wyoming bdy. from 273¹ to 286th mile cors.; also frac'l E. bdy. T.4 S., R. 20 E.; W. bdy. T.3 S., R. 20 E.; N. bdy. T.4 S., R. 19 E.; and E. bdy. T.3 N.R.23 E. of the Salt Lake Base and Meridian, Utah.

Subscribed and sworn to before me this 7th

day of June, 1906.



John P. Stewart
U.S. Deputy Surveyor

We, Alden Oscar Gledhill and John W. Pickering

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of retracement of fractional S. and W. bdy's. Fort Thornbury Military Reservation, T.S.3 and 4 S., R. 20 E.; frac'l E. bdy. Uintah Indian Reservation bdy. T.S.4 and 5 S., R. 19 E.; Utah Wyoming bdy. from 273¹ to 286th mile cors.; also frac'l E. bdy. T.4 S., R. 20 E.; W. bdy. T.3 S., R. 20 E.; N. bdy. T.4 S., R. 19 E.; and E. bdy. T.3 N.R.23 E. of the Salt Lake Base and Meridian, Utah.

Subscribed and sworn to before me this 7th

day of June, 1906.



John P. Stewart
U.S. Deputy Surveyor

I, John R. Llewellyn, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the retracement of fractional S. and W. bdy's. Fort Thornbury Military Reservation, T.S.3 and 4 S., R. 20 E.; frac'l E. bdy. Uintah Indian Reservation bdy. T.S.4 and 5 S., R. 19 E.; Utah Wyoming bdy. from 273¹ to 286th mile cors.; also frac'l E. bdy. T.4 S., R. 20 E.; W. bdy. T.3 S., R. 20 E.; N. bdy. T.4 S., R. 19 E.; and E. bdy. T.3 N.R.23 E. of the Salt Lake Base and Meridian, Utah.

day of June, 1906.



John P. Stewart
U.S. Deputy Surveyor

Retracement South Bdy. Fort Thornburg Military Reservation.

- Chains. Survey commenced June 13, 1906, and executed with a Young and Sons light mountain transit, No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.
- The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the Surveyor General for Utah on June 1, 1906.
- June 13, 1906: At 2 h.0 m.p.m.l.m.t. I set off $40^{\circ} 30'$ N. on the lat.arc; $23^{\circ} 13'$ N. on the decl.arc; and determine a meridian with the solar at the closing cor. of secs. 3 and 34 on N.bdy.T.4 S., R. 20 E., heretofore described.
- Note: For complete test of instrument see notes of West bdy.T.4 S., R. 20 E.
- Note: On account of the closing of the north bdy.of T.4 S., R. 20 E., I am led to believe that discrepancies exist in the east bdy.of the Tp., or in the South bdy.of the Fort Thornburg Military Reservation; therefore I proceed to retrace them as follows:
- From the closing cor.of secs. 3 and 34, described above I run,
- S. $71^{\circ} 15'$ E.on retracement line along bdy.of Fort Thornburg Military Reservation.
- 30.68 The $\frac{1}{2}$ mile cor.of Reservation bdy., which is a sandstone 6x14x7 ins.above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears N. $18^{\circ} 45'$ E. 9 lks.dist.
- 70.18 The 13th mile cor.on bdy:, which is a sandstone 6x14x6 ins:above ground, firmly set and mkd.and witnessed as described by the surveyor general, bears N. $18^{\circ} 45'$ E.22 lks.dist.
- The course of this line is therefore S. $71^{\circ} 26'$ E.

Retracement Fort Thornburg Military Reservation Bdy.

- Chains. S.71° 15'E.on retracement line along 14th mile on Fort Thornburg Military Reservation bdy.
- 8.00 Find no trace of closing cor.of secs.2 and 3.
- 39.90 The $\frac{1}{2}$ mile cor.bet.the 13th and 14th mile cors.on Reservation bdy., which is a sandstone 10x16x14 ins. above ground, firmly set, and mkd.and witnesssd as described by the surveyor general, bears N.18° 45'E. 13 lks.dist.
- 51.70 Angle cor.on Reservation bdy., which is a cedar post $4\frac{1}{2}$ ins.sq., and 2 ft.above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears N.18° 45'E. 16.5 lks.dist.
- The course of this line is therefore S.71° 26'E.

June 13, 1906.

June 14, 1906: At 7 h.0 m.a.m.l. m.t.I set off 40° 30'N.on the lat.arc; 23°.16'N.on the decl.arc; and determine a meridian with the solar at the angle cor. on Fort Thornburg Military Reservation bdy.above described. Thence I run

South along 14th mile on Reservation bdy.

- 29.38 The 14th mile cor.on Reservation bdy.which is a sandstone 6x16x6 ins.above ground, firmly set, and mkd. and witnessed as described by the surveyor general bears E.9 lks.dist.
- The course of this line is therefore S.0°10'E.

Southon retracement line along Fort Thornburg Military Reservation bdy.along 15th mile.

- 10.74 The $\frac{1}{2}$ sec.cor.of secs.2 and 11 from the east, which is a sandstone 6x10x5 ins. above ground, firmly set, and mkd.and witnessed as described by the surveyor general bears East .3 lks.dist.

Retracement S.bdv. Fort Thornburg Military Reservation-Contd.

Chains

- 40.00 The $\frac{1}{2}$ mile cor. bet. the 14th and 15th mile cors. on the bdy., which is a sandstone, 6x14x7 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears East 12 lks. dist. The course of this line is therefore S.0°10'E.

South, on retracement line along bdy. of Fort Thornburg Military Reservation, on 16th mile.

- 10.60 The angle cor. on Reservation bdy. which is also $\frac{1}{4}$ sec. cor. bet. secs. 11 and 14, which is a cedar post, 4 ins. sq., 2 ft. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears East 3 lks. dist. The course of this line is therefore S.0°10'E.

Thence, I run

East, along Reservation bdy. from the above described angle cor.

- 29.38 The $\frac{1}{2}$ mile cor. bet. the 15th and 16th mile cors. on the Reservation bdy., which is a sandstone, 10x12x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

- 40.00 Intersect. cor. of secs. 11 and 12, which is a sandstone, 6x8x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

- 69.32 The 16th mile cor. on Reservation bdy., which is a sandstone, 8x12x8 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

- 80.06 The $\frac{1}{4}$ sec. cor. bet. secs. 12 and 13, which is a sandstone,

Retrace mt off S. side Fort no. 11, g. 11 itary 11. ratio:

- Chains 6x14x7 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- 109.40 Intersect $\frac{1}{2}$ mile cor. bet. the 16th and 17th mile cors. on the Reservation bdy., which is a sandstone, 6x13x8 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- 120.00 Intersect the cor. of secs. 7, 12, 13, and 18, on E. bdy. of Tp., which is a sandstone, 6x10x10 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- June 14, 1906: At this cor. I set off $23^{\circ} 16' N.$, on the decl. arc; and at 12 h. M. . . . , l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ} 29' N.$, which is the proper lat. nearly.
- From the cor. of secs. 7, 12, 13, and 18, above described, I run South, on retrace ment line bet. secs. 13 and 18.
- 40.60 The $\frac{1}{4}$ sec. cor. bet. secs. 13 and 18, which is a sandstone, 3x8x8 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears East 59 lks. dist.
- 80.49 The cor. of secs. 13, 18, 19, and 24, which is a cobblestone, 7x14x6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears East 117 lks. dist.
- The course of this line is therefore S. $09^{\circ} 50' E.$ and distance 80.50 chs.
- South, on retrace ment line bet. secs. 19 and 24.
- 40.00 The $\frac{1}{4}$ sec. cor. bet. secs. 19 and 24, which is a sandstone, 6x10x8 ins., above ground, firmly set, and mkd. and

Retracement of East bdy T. 4 S., R. 20 E. -Continued

- Chains witnessed as described by the surveyor general,bears
East,30 lks.dist.
- 60.07 The cor.of secs.19,24,25, and 30,which is a limestone,6x
12x7 ins.above ground,firmlly set, and mkd.and witnessed
as described by the surveyor general,bears East 60 lks.
dist.;therefore the course of this line is S.0°26'E.
-
- South, on retracement line betsecs.25 and 30.
- 43.30 The $\frac{1}{2}$ sec.cor.bet.secs.25 and 30,which is a sandstone,
6x10x10 ins.above grouna,firmly set, and mkd.and witnessed
as described by the surveyor general,bears E.254 lks.
dist.
- 82.80 The cor.of secs.25,30,31, and 36,which is a sandstone,6x
12x8 ins.above ground,firmlly set, and mkd.and witnessed
as described by the surveyor general,bears East 284 lks.
dist.;
- The course of the north half of this mile is therefore
S.3°21'E.,43.37 chs.
- The course of the south half of the mile is S.0°26'E.
39.50 chs.
-
- South, on retracement line betsecs.31 and 36.
- 40.04 The $\frac{1}{2}$ sec.cor.bet.secs.31 and 36,which is a limestone,
6x10x8 ins.above ground,firmlly set, and mkd.and
witnessed as described by the surveyor general,bears
East 30 lks.dist.
- 80.10 The Tp.cor.herebefore described of Tps.4 and 5 S.,Rs.20
and 21 E.,bears East 60 lks.dist.
- The course of this line is thererore S.0°26'E.

Retracement of East bdv T 4 S R 20E -Concluded

John R Stewart
U.S. Deputy Surveyor.

Volume

#

R0335

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by ..., United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of ..., owing the respective capacities in which they acted:

... Chainman,
or final affidavit see book "Z⁴" Tp. 3 N., R. 22 E., Chainman.
... Moundman.
... Moundman.
... Arman.
... Arman.
... Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted,

United States Deputy Surveyor, in surveying all
parts or portions of the

of the,
meridian, of ..., which are represented
by foregoing field notes as having been surveyed by him and under his direction; and that said survey
been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
said monuments established, according to the instructions furnished by the United States Surveyor
General for

or final affidavit see book "Z⁴" Tp. 7 N., R. 22 E., Chainman.
..., Chainman.
..., Moundman.
..., Moundman.
..., Arman.
..., Arman.
..., Flagman.

described and sworn to before me this ... day of ..., 1800. }

602000
602100
602200

BOOK A 333
FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of the _____ day of _____, 190_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavits: see book "Z" Tp. 3 N., R. 22 E.

..... of the
..... meridian, in the of which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this day of 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 1907.

The foregoing field notes of the survey of retracement of the fractional South Boundary of the Fort Thornburg Military Reservation, and fractional East Boundary of Township No. 4 South, Range No. 20 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart under contract No. 295, dated April 30, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

G. W. Hamashuel
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-335

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AUG 31 1906

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 4 South, Range No. 20 East,

Of the SALT LAKE BASE AND Meridian,

STATE OF UTAH

AS SURVEYED BY

tt M.P. Stewart and John R. Stewart, United States Deputy Surveyor,
their Contract No. 295, dated April 30, 1906, ~~xx~~
vey commenced June 14, 1906, ~~xx~~
vey completed June 28, 1906, ~~xx~~

High 58,50.42 ✓
Clim 78.22 ✓

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher Chainman

Leo A. Snow Chainman

Paul Ashworth Moundman

Quinby Stewart Moundman

Alden Oscar Gledhill Axman

John W. Pickering Axman

John R. Llewellyn Flagman

6-151

Volume**#****R0335**

BOOK A-335

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, Harvey Fletcher and Geo. A. Snow,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of subdivisions of T. 4 S. R. 20 E.; T. 3 S. R. 20 E.; T. 4 S. R. 19 E.; T. 5 S. R. 19 E.; T. 3 N. R. 20 E.; subdivisions and meanders of Sec. 13 N. R. 20 E. (all fractional) of the Salt Lake Base and Meridian, Utah.

Harvey Fletcher, Chainman
Geo. A. Snow, Chainman

Subscribed and sworn to before me this 7th

day of June, 1906



We, Paul Ashworth

John R. Stewart

U.S. Deputy Surveyor

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of subdivisions of fractional T. 4 S. R. 20 E.; T. 3 S. R. 20 E.; T. 4 S. R. 19 E.; T. 5 S. R. 19 E.; T. 3 N. R. 20 E.; subdivisions and meanders of T. 2 and 3 N. R. 20 E. of Salt Lake Base and Meridian, Utah.

Paul Ashworth, Moundman
Dunby Stewart, Moundman

Subscribed and sworn to before me this 7th

day of June, 1906



We, Alden Oscar Gledhill

and John W. Pickering

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey of subdivisions of fractional T. 4 S. R. 20 E.; T. 3 S. R. 20 E.; T. 4 S. R. 19 E.; T. 5 S. R. 19 E.; T. 3 N. R. 20 E.; subdivisions and meanders of T. 2 and 3 N. R. 20 E. of Salt Lake Base and Meridian, Utah.

Alden Oscar Gledhill, Axman
John W. Pickering, Axman

Subscribed and sworn to before me this 7th

day of June, 1906



John R. Lewellyn

John R. Stewart
U.S. Deputy Surveyor

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of subdivisions of fractional T. 4 S. R. 20 E.; T. 3 S. R. 20 E.; T. 4 S. R. 19 E.; T. 5 S. R. 19 E.; T. 3 N. R. 20 E.; subdivisions and meanders of T. 2 and 3 N. R. 20 E. of Salt Lake Base and Meridian, Utah.

John R. Lewellyn, Flagman

Subscribed and sworn to before me this 7th

day of June, 1906



John R. Stewart
U.S. Deputy Surveyor

Subdivision of T 4 S . R. 20 E.

Survey commenced June 14, 1906, and executed with a Young and Sons light mountain transit, No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the lat. and decl. arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, June 1, 1906.

I examine the adjustments of the transit and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during a.m. and p.m. hours with a meridian determined by observations on Polaris I proceed as follows:

At the cor. of secs. 1, 2, 35, and 36 on S.bdy.of Tp., set by me and heretofore described; latitude $40^{\circ} 25' 12''$ N.; longitude $109^{\circ} 38' 32''$ W., I set off $40^{\circ} 25' N.$ on the lat.arc; $23^{\circ} 17' N.$ on the decl.arc; and at 5 h. 0m p.m.l.m.t., I determine a meridian with solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs.N. of the cor.

June 14, 1906.

June 15, 1906: At 1 h. 58.6 m.a.m.l.m.t. I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined on a wooden peg set in the ground 5.00 chs.N. of the cor.

At 6 h. 30m.a.m.l.m.t. I lay off the azimuth of Polaris $1^{\circ} 33.6'$ to the west, and mark a point in the meridian thus determined by cutting a small groove in the stone

Subdivision of T. 1 S., R. 29 E.

Chains. already set 5.00 chs.N.of the cor.: this mark falls 0.41 instant of the mark determined by the solar. At 7h. On a.m.l.m.t. I set off $40^{\circ} 25' N.$ on the lat.arc; $23^{\circ} 18' N.$ on the decl.arc; and mark a point in the meridian determined with the solar, by a cross on the stone already set 5.00 chs.N.of the cor.: this mark falls 0.33 instant of the meridian determined by Polaris observation.

The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0^{\circ} 22' \text{ west}$, and $0^{\circ} 17' \text{ east}$ of the meridian determined with the Polaris observation: therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h. 30 m.a.m. is N. $16^{\circ} 17' W.$; the angle thus determined gives the map.decl. $16^{\circ} 17' E.$

The N.bdy.of Tp.being out of limit in alignment, From the cor.of secn.1,2,35. and 36. already described, I run on sectional guide meridian,

North...bot.sec.35 and 36,

Over mountainous land; through dense sagebrush.

Asc.gradually.

- 16.00 Top of broad ridge, 15 ft.above sec.cor., bears N.E. and S.W.
Face.
- 20.00 Bottom of hollow, 30 ft.below ridge, course SW. Asc.
- 40.00 Set a quartzite stone 18x10x8 ins.. 12 ins.in the ground
for $\frac{1}{2}$ sec.cor., and $\frac{1}{2}$ on w.face; and raise a mound of
stone 2 ft.high, $1\frac{1}{2}$ ft.high E.of cor.
- 48.00 Top of ridge, 200 ft.above hollow,bears N. $80^{\circ} E.$ and S.
 $70^{\circ} W.$ Face.
- 52.00 Bottom of hollow, 250 ft.below ridge, course W. Asc.
- 54.00 Top, 300 ft. above hollow,bears N. and W. Face.

Description of Survey Line Continued

Chains	
80.00	Set a quartzite stone, 16x7x5 ins., 11 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, mkd. with 1 notch on S. and E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly and clay loam; 2nd rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,
80.00 " chs.	Set a quartzite stone, 16x7x5 ins., 11 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, mkd. with 1 notch on S. and E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
	East, on a random line bet. secs. 25 and 36.
40.00	Set temp. sec. cor.
79.50	Intersect E. bdy. of Tp., 12 lks. S. of the cor. of secs. 25, 30, 31, and 36, heretofore described.
	Thence I run
	S. 89° 55' W., on a true line bet. secs. 25 and 36.
	Over mountainous land; through heavy cedar timber.
	Ascend along south side of ridge.
10.00	Top of ridge, 30 ft. above cor., bears N. 60° E. and S. 60° W.
	Leave timber and enter dense sage brush, bears N. 60° E. and S. 60° W.
	Desc.
36.80	Bottom of hollow, 400 ft. below ridge, course S. 60° W.
	Asc. hill, 100 ft. N. 60° E. and S. 60° W.
39.75	Set a sandstone, 16x11x6 ins., 11 ins. in the ground, for ¼ sec. cor., mkd. on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
40.75	Top of spur, 400 ft. above hollow, bears N. and S. 60° W.
	Desc.

Subdivision of T 4 S. R. 20 E -Continued.

Chains	Desc.
45.50	Bottom of hollow, 400 ft. below spur, course S. 12° E. and S. 78° W.
	Asc. 120 ft. to ridge, 150 ft. above hollow, bears N. and S.
52.00	Top of ridge, 200 ft. above hollow, bears N. and S.
	Desc.
79.50	The cor. of secs. 25, 26, 35, and 36. mountainous land. Land, mountainous and rocky, soil, clay and gravelly loam; 3rd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.50 chs.
	At this cor. I set off <u>23° 18' N.</u> , on the decl. arc; and at 12h. p.M., l.m.t., I observe the sun on the meridian the resulting lat. is <u>40° 26' N.</u> , which is the proper lat. nearly.
	For reasons already stated, I run on sectional guide Pomeridian; then, because of the irregularity of the N. North, bet. secs. 25 and 26.
	Over rolling mountainous land; through dense sage brush.
	Desc.
30.00	Foot of descent, 150 ft. below sec. cor., bears N. 30° E. and S. 30° W.
	Enter rolling mesa.
37.25	Road from Vernal to White Rocks, bears N. 30° E. and S. 30° W.
37.75	Wash, 6 lks. wide, 3 ft. deep, course S. 30° W.
40.00	Set a quartzite stone, 16x10x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. or., mkd. $\frac{1}{4}$ on W. face; dig pits, 18x18x12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth; $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
68.50	Wood road, bears N. 75° E. and S. 75° W.
80.00	Set a quartzite stone, 15x8x8 ins. 10 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, mkd. with 2 notches on

Subdivision of T. 4 S R. 20 E. -Continued.

- Chains S. and 1 notch on E. edges; dig pits, 18x18x12 ins. in each sec. $\frac{5}{8}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. 1/2 sec. on N. side of cor. Land, mountainous and rolling mesa. Soil, clay loam; 2nd rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
-

Note: Knowing from connections already made that the line bet. secs. 24 and 25 will not intersect the east bdy. of Tp., within limits;

I run

N. $89^{\circ} 55' E.$, on a true line bet. secs. 24 and 25.

Over sage brush mesa.

15.25 Road from Vernal to White Rocks, bears NE and SW.

17.25 Road from Vernal to White Rocks, bears NE and SW.

17.50 Leave mesa, bears NE and SW.

Asc.

40.00 Set a quartzite stone, 14x10x7 ins., 9 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. $\frac{1}{2}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

54.00 Top of spur, 300 ft. above mesa, bears NW and SE.

Desc.

57.00 Bottom of hollow, 200 ft. below spur, course NW.

Asc.

67.00 Top of ridge, 300 ft. above hollow, bears NW and SE.

Desc.

76.70 Intersect E. bdy. of Tp., 271 lks. S. $3^{\circ} 21' E.$, of cor. of secs. 19, 24, 25, and 30, heretofore described.

Set a sandstone, 14x10x6 ins. 9 ins. in the ground, for

Subdivision of T 4 S. 23-25 E - C. 24, 25, 26

Chains closing cor. of secs. 24 and 25. mkd. C C on W. with 4 grooves on N. and 2 groove on S. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Note: I destroy all marks on the cor. of secs. 19, 24, 25, and 30 which pertain to secs. 24 and 25.

Land, mountainous and rolling mesa.

Soil, clay loam and rocky; 2nd and 4th rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth.

76.70 chs.

June 15, 1906.

June 16, 1906: At 7 h 0 m a.m., l.m.t., I set off $40^{\circ} 27' N.$ on the lat. arc; $23^{\circ} 24' N.$, on the decl. arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25, and 26. Thence I run, for reasons already stated, on sectional guide meridian,

North, bet. secs. 23 and 24.

Over level mesa; through dense sage brush.

11.00 Leave mesa, bears E. and W.

Desc.

40.00 Set a quartzite stone, 16x8x4 ins., 11 ins. in the ground, for ¼ sec. cor.. mkd. ¼ on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

55.25 Wood road bears E. and W.

Enter bottom of canon, bears E. and W.

59.50 Wash in canon, 500 ft. below mesa, course E.

67.00 Wash, 70 lks. wide, 20 ft. deep, course S. 75° E.

67.50 Leave canon bottom, bears N. 75° W. and S. 75° E.

Asc.

Ridge 163 N. T. S. 320 W. Continued

Chains

68.50 Road on top of spur, 200 ft. above canon, bears N. 75° W. and S. 75° E.

Desc.

76.00 Road, bears N. 75° W. and S. 75° E.

79.40 Wood road, bears NW and SE.

80.00 Set a sandstone, 16x10x8 ins., 11 ins. in the ground, for cor. of secs. 13, 14, 23, and 24, mkd. with 3 notches on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.

Land, mountainous and rolling, mesa.

Soil, clay loam; 2nd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

80.00 chs.

Note: For reasons already explained I run

N. 89° 55' E., on a true line bet. secs. 13 and 24.

Over mountainous land; through dense sage brush.

Desc.

.25 Bottom of canon, 20 ft. below sec. cor., course SE. Wash, 30 lks. wide, 7 ft. deep, in bottom.

Asc.

9.00 Top of ridge, 400 ft. above canon, bears NW and SE.

Desc.

18.00 Bottom of hollow, 300 ft. below ridge, course SE.

Asc.

27.00 Top of ridge, 200 ft. above hollow, bears NW and SE.

Desc.

30.00 Foot of descent, bears NW and SE, 200 ft. below ridge,

Subdivision of T 1-S R 20 E - section 13

Chains Enter sage brush flat.

- 40.00 Set a sandstone, 18x9x5 ins., 12 ins. in the ground, for
 $\frac{1}{2}$ sec.cor.. mkd. $\frac{1}{2}$ on N. face; and raise a mound of stone,
 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 48.00 Leave flat, bears NW. and SE.
- Asc.
- 49.00 Top of knoll. Desc.
- 51.00 Foot of descent, 75 ft. below knoll, bears N. and S.
- Enter flat.
- 75.90 Intersect E. bdy. of Tp., 277 lks. S. 0° 26' E., of the cor. of
 sec. 13, 18, 19, and 24, heretofore described.
- Set a quartzite stone, 16x7x5 ins.; 11 ins. in the ground,
 for closing cor. of secs. 13 and 24, mkd. C C on W., with
 3 grooves on N., and S. faces; and dig pits, 24x18x12 ins.
 crosswise on each line N and S 3 ft. and W. of stone 7 ft.
 dist., and raise a mound of earth, 4 ft. base, 2 ft. high,
 W. of cor. I destroy all marks on the cor. of secs. 13, 18,
 19 and 24 that pertain to secs. 13 and 24.
- Land, mountainous and level.

Soil, clay loam; 2nd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land; br land covered with dense undergrowth,
 75.90 chs.

June 16, 1906: At the noon hour the sky is overcast and
 solar observations are impossible.

For reasons already stated, I run, on sectional guide

meridian, true

North., on a true line bet. secs. 13 and 14.

Over mountainous land; through scattering sage brush.

Desc.

- .25 Wash, 30 lks. wide, 7 ft. deep, in hollow, course SE.

Asc.

- 3.80 Wood road, bears E. and W.

Subdivision of T. 4 S., R. 20 E. -Continued.

Chains	
4.50	Top of spur, 25 ft. above hollow, bears NW and SE.
	Desc.
6.00	Wood road, bears NW and SE.
9.25	Wash, 50 lks. wide, 10 ft. deep, in hollow, 25 ft. below spur, course S. 30° E.
	Asc.
30.00	Top of ridge, 600 ft. above hollow, bears NW and SE.
	Enter heavy timber, bears NW and SE.
	Desc.
31.00	Wood road, bears NW and SE.
40.00	Set a hard sandstone, 16x12x7 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{2}$ on W. face; from which A cedar, 6 ins. dia., bears S. 30° E., 78 lks. dist.. mkd. $\frac{1}{4}$ S 13 B T. A cedar, 5 ins. dia., bears N. 50° W., 16 lks. dist.. mkd. $\frac{1}{4}$ S 14 B T.
44.50	Bottom of hollow, 400 ft. below ridge, course E. Leave timber, bears E. and W.
	Asc.
52.00	Top of spur, 200 ft. above hollow, bears E. and W. Enter heavy timber, bears E. and W.
	Desc.
64.00	Leave timber, and enter dense sage brush, bears E. and W. Begin more gradual descent; bears NW and SE.
80.00	Set a sandstone, 14x11x4 ins., 9 ins. in the ground, for cor. of secs. 11 and 14, mkd. with 4 notches on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
83.31	Intersect S. bdy. Fort Thornburg Military Reservation, 5.60 chs. East of the cor. of secs. 11, 12, 13, and 14 and 16.22 chs. East of the $\frac{1}{2}$ mile cor. bet. the 15th and 16th mile cors. on the Reservation bdy., heretofore described. Set a sandstone, 16x9x7 ins., 11 ins. in the ground, for closing cor. of secs. 13 and 11, mkd. C.C. on S., F.T.M.R. on N. 4 grooves on S. and 1 groove on E. faces; and raise a mound,

Subdivision of the S. 1/4 sec. - Run lined

- Chains of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.
- Note: I destroy all marks on the old cor. of secs. 11, 12, 13, and 14, which pertain to secs. 13 and 14.
- Land, mountainous.
- Soil, clay loam; 2nd rate.
- Timber, cedar.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous or heavily timbered land, or land covered with dense undergrowth, 83.31 chs.

June 16, 1906.

June 17, 1906: At 7 h 0 m a.m., l.m.t., I set off $40^{\circ}25'N.$, on the lat. arc; $23^{\circ}24'N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 2, 3, 34, and 35, on S. bdy. of Tp., heretofore described.

Thence I run

$N.0^{\circ}01'W.$, bet. secs. 34 and 35.

Over rolling mesa; through dense sage brush and shadscales.

- 40.00 Set a quartzite stone, 14x8x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

60.00 Leave mesa, bears NE and SW.

Desc.

73.85 Bottom of hollow, 200 ft. below mesa, course SE.

Enter heavy cedar timber, bears NW and SE.

Asc.

- 80.00 Set a sandstone, 18x12x9 ins., 12 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, mkd. with 1 notch on S. and 2 notches on E. edges; from which

A cedar, 8 ins. dia., bears N. $16^{\circ}30'E.$, 205 lks.

Subdivision of T 1 S R 20 E -Continued

Chains	dist., mkd. T 4 S R 20 E S 26 B T. A cedar, 10 ins. dia., bears S. 18° E., 134 lks. dist., mkd T 4 S R 20 E S 35 B T. A cedar, 6 ins. dia., bears S. 22° W., 118 lks. dist., mkd T 4 S R 20 E S 34 B T. A cedar, 8 ins. dia., bears N. 17° 30' W., 309 lks. dist., mkd T 4 S R 20 E S 27 B T.
	Land, mountainous and rolling mesa.
	Soil, clay and sandy loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage brush and shadscales.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80 .00 chs.
	— — —
	East, on a random line bet. secs. 26 and 35.
40.00	Set temp. at sec. cor.
80.02	Intersect N. and S. line, at the cor. of secs. 25, 26, 35, and 36.
	Thence I run
	West, on a true line bet. secs. 26 and 35.
	Over mountainous land; through dense sage brush.
	Desc. gradually.
18.00	Bottom of canon, 200 ft. below sec. cor., course S. 10° W. Road from Vernal to White Rocks, in bottom, bears N. 10° E. and S. 10° W.
	Asc.
21.00	Top of spur, 50 ft. above canon, bears N. and S. Desc.
24.00	Bottom of hollow, 50 ft. below spur, course SE. Asc.
37.00	Enter scattering timber, bears N. and S.
40.01	Top of ridge, 200 ft. above hollow, bears NW and SE.

Subdivision of T 4 S 20 E -Continued

Chains	Set a sandstone, 16x7x6 ins., 11 ins. in the ground, for sec.cor.. mkd. $\frac{1}{4}$ on N.face; from which A cedar, 7 ins.dia., bears N.72°W., 121 lks.dist.. mkd. $\frac{1}{4}$ S 26 B T.
	A cedar, 10 ins.dia., bears S.18°W., 74 lks. dist.. mkd. $\frac{1}{4}$ S 35 B T.
Desc.	
49.00	Bottom of hollow, 200 ft. below ridge, course S.20°E.
Asc.	
66.00	Top of ridge, 100 ft. above hollow, bears N.30°W. and S.30° E.
Desc.	
80.02	The cor.of secs.26,27,34, and 35. Land, mountainous. Soil, gravelly and clay loam; 2nd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth. 80.02 chs. June 17, 1906: At this cor. I set off 23°23'N., on the decl. arc; and at 12 h. M., l.m.t., I observe the sun on the meridian, the resulting lat. is 40°26'N., which is the proper lat. nearly.
	N.0°1'W., bet. secs.26 and 27. Over mountainous land; through heavy timber and scattering sage brush. Asc.gradually.
12.35	Old road, bears NE and SW.
40.00	Set a sandstone, 20x8x7 ins., 15 ins. in the ground, for sec.cor.. mkd. $\frac{1}{4}$ on W.face; from which A cedar, 10 ins.dia., bears N.17°30'E., 61

Subdivision of T 4 S. R. 20 E. -Continued.

Chains.	1 lks. dist., mkd. $\frac{1}{4}$ S 26 B T.
	A cedar, 6 ins. dia., bears S. $51^{\circ} 30' W.$, 61 lks. dist., mkd. $\frac{1}{4}$ S 27 B T.
48.00	Top of ridge, 300 ft. above $\frac{1}{4}$ sec. cor., bears NW and SE. Descend.
59.00	Bottom of hollow, 400 ft. below ridge, course E. Asc.
62.00	Top of spur, 40 ft. above hollow, bears E. and W. Desc.
77.00	Enter bottom of flat canon, bears NW and SE. Leave timber and enter dense undergrowth, bears NW and SE.
80.00	Set a quartzite stone, 20x12x5 ins., 15 ins. in the ground, for por. of secs. 22, 23, 26, and 27, mkd. with 2 notches on S., and E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous. Soil, clay loam; 2nd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	✓ East, on a random line bet. secs. 23 and 26.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
79.86	Intersect N. and S. line, 5 lks. N. of the cor. of secs. 23, 24, 25, and 26. Thence I run N. $89^{\circ} 58' W.$, on a true line bet. secs. 23 and 26. Over Rolling mesa; through dense sage brush.
25.00	Leave mesa, bears N. and S. Asc.
25.50	Enter scattering timber, bears N. and S.

Subdivision of T. 4 S., R. 20 E.-Continued.

Chains.

36.00 Top of ridge, 300 ft. above mesa, bears N. 20° E. and S. 20° W.

Desc.

36.50 Enter heavy timber, bears N. 20° W. and S. 20° E.

39.93 Set a quartzite stone, 18x10x9 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; from which

A cedar, 16 ins. dia., bears N. 1° E., 15 lks.

dist. mkd. $\frac{1}{4}$ S 23 B.T.

A cedar, 12 ins. dia., bears S. 23° 30' E., 26 lks.

dist. mkd. $\frac{1}{4}$ S 26 B.T.

52.00 Bottom of hollow, 400 ft. below ridge, course S.

Asc.

66.00 Top of spur, 300 ft. above hollow, bears N. and S.

Desc.

71.00 Foot of descent, 150 ft. below spur, bears NW and SE.

Enter bottom of canon.

Leave timber, bears NW and SE.

77.00 Wash, 50 lks. wide, 10 ft. deep, course S. 60° E.

79.86 The cor. of secs. 22, 23, 26, and 27.

Land, mountainous and nearly level.

Soil, clay loam; 2nd rate.

Timber, cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.86 chs.

June 17, 1906.

June 18, 1906: At 7 h 11 m. a.m., l.m.t., I set off 40° 27' N., on the lat. arc; 23° 25' N., on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 22, 23, 26, and 27.

Subdivision of 14 S. R. 20 E. -Continued

- Chains Thence I run
 N.0° 1' W., bet. secs. 22 and 23.
 Over level canon bottom; through dense sage brush.
 .25 Wash, 20 lks. wide, 6 ft. deep, course S. 60° E.
 21.00 Leave canon bottom, bears NW and SE.
 Enter heavy cedar timber, bears NW and SE.
 Asc.
 33.00 Top of ridge, 500 ft. above canon, bears E. and W. Desc.
 33.50 Leave undergrowth, bears E. and W.
 40.00 Set a sandstone, 18x14x8 ins., 12 ins. in the ground, for
~~sec.~~ cor. mkd. $\frac{1}{4}$ on W. face; from which
 A cedar, 10 ins. dia., bears N. 44° E., 15 lks.
 dist. mkd. $\frac{1}{4}$ S 23 B T.
 A cedar, 12 ins. dia., bears N. 74° W., 30 lks.
 dist. mkd. $\frac{1}{4}$ S 22 B T.
 40.90 Leave cedar and enter sage brush, bears E. and W.
 52.50 Wood road, bears N. 70° E. and S. 70° W.
 55.00 Bottom of broad hollow, 200 ft. below ridge, course E.
 Enter scattering timber, bears E. and W.
 57.00 Top of ridge, 100 ft. above hollow, bears E. and W.
 Desc.
 60.00 Foot of descent, 100 ft. below ridge, bears E. and W.
 Leave timber, and enter dense sage brush, bears E. and W.
 Descend gradually.
 77.00 Wash, 10 lks. wide, 2 ft. deep, course S. 70° E.
 80.00 Set a quartzite stone, 20x10x9 ins., 15 ins. in the ground,
 for cor. of secs. 14, 15, 22, and 23, mkd. with 3 notches on S.
 and 2 notches on E. edges; dig pits, 18x18x12 ins. in each
 sec. $5\frac{1}{2}$ ft. dist; and raise a mound of earth, 4 ft. base, 2
 ft. high, W. of cor.
 Land, mountainous and nearly level.
 Soil, clay loam; 2nd rate.
 Timber, cedar.
 Undergrowth, sage brush.

Subdivision of T 4 S R 20 E -Continued.

Chains	Good grass for grazing. Mountainous or heavily timber land, or land covered with dense undergrowth, 80.00 chs.
	S.89°58'E., on a random line bet. secs. 14 and 23.
40.00	Set temp. $\frac{1}{4}$ sec.cor.
80.00	Intersect N. and S. line, at the cor. of secs. 13, 14, 23, and 24.
	Thence I run $\frac{1}{4}$ sec.cor. N.89°58'W., on a true line bet. secs. 14 and 23.
	Over mountainous land; through dense sage brush.
	Asc.
1.60	Wood road, bears NW and SE.
6.00	Road on top of ridge, 200 ft. above sec.cor., bears NW and SE.
	Desc.
34.00	Bottom of hollow, 300 ft. below ridge, course SE.
	Asc.
40.00	Set a sandstone, 16x8x7 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
44.00	Top of steep ascent, 300 ft. above hollow, bears NW and SE.
	Asc. gradually.
80.00	The cor. of secs. 14, 15, 22, and 23.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	No. timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 80.00 chs.
	June 18, 1906: At this cor. I set off 23°25'N., on the decl. arc; and at 0 h-1 m-p.m., l.m.t., I observe the sun on

Subdivision of T. 4 S., R. 20 E. -Continued

Chains	the meridian, the resulting lat. is $40^{\circ} 28' N.$, which is the proper lat. nearly.
	N. $0^{\circ} 1' W.$, bet. secs. 14 and 15.
	Over mountainous land; through dense sage brush.
	Asc. gradually.
20.00	Wash, 50 lks. wide, 20 ft. deep, course SE.
34.00	Begin steep ascent, bears NW and SE.
	Enter heavy timber, bears NW and SE.
40.00	Top of ridge, 100 ft. above sec. cor., bears E. and W.
	A cedar, 4 ins. dia., for $\frac{1}{2}$ sec. cor., I mark $\frac{1}{2}$ S 15 on W. side and 14 on E. side; from which
	A cedar, 4 ins. dia., bears S. $47^{\circ} E.$, 45 lks. dist., mkd. $\frac{1}{2}$ S 14 B T.
	A cedar, 6 ins. dia., bears S. $33^{\circ} 30' W.$, 80 lks. dist., mkd. $\frac{1}{2}$ S 15 B T.
45.00	Bottom of hollow, 50 ft. below ridge, course E. Asc.
56.00	Leave timber, bears E. and W.
63.25	Wood road, bears NW and SE.
64.00	Top of spur, 50 ft. above hollow, bears NW and SE.
	Enter heavy timber, bears NW and SE.
	Desc.
74.00	Bottom of hollow, 75 ft. below spur, course SE.
	Asc.
80.00	Set a quartzite stone, 16x8x7 ins., 11 ins. in. the ground, for cor. of secs. 10, 11, 14, and 15, mkd. with 4 notches on S. and 2 notches on E. edges; from which
	A cedar, 8 ins. dia., bears N. $12^{\circ} E.$, 21 lks. dist., mkd. T 4 S. R. 20 E S 11 B T.
	A cedar, 12 ins. dia., bears S. $62^{\circ} 45' E.$, 93 lks. dist., mkd. T 4 S. R. 20 E S 14 B T.
	A cedar, 5 ins. dia., bears S. $15^{\circ} W.$, 61 lks. dist., mkd. T 4 S. R. 20 E S 15 B T.

- Sat. evening, at S.R. 20 E. Cor., find a cedar, 16 ins. dia., bears N. 20° 45' W., 84 lks.
Chains dist., mkd. T 4 S.R. 20 E S. 10 B.T.
- Land, mountainous.
- Soil, clay loam; 3rd rate.
- Timber, cedar.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor. S. 89° 58' E., on random line bet. secs. 11 and 14.
- 80.00 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 11 and 14.
- Thence I run West, on a true line bet. secs. 11 and 14.
- Over mountainous land; through dense sage brush.
- Asc. gradually.
- 6.50 Top of spur, 50 ft. above sec. cor., bears N. and S.
- Desc.
- 11.50 Bottom of hollow, 50 ft. below spur, course SE.
- Enter heavy timber and leave sage brush, bears NW and SE.
- Asc.
- 24.00 Top of ridge, 600 ft. above hollow, bears NW and SE.
- Desc.
- 34.00 Bottom of hollow, 400 ft. below ridge, course S. 30° E.
- Asc.
- 40.00 Set a sandstone, 18x12x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; from which
- A cedar, 7 ins. dia., bears N. 66° 30' W., 30 lks.
dist., mkd. $\frac{1}{4}$ S. 11 B.T.
- A cedar, 5 ins. dia., bears S. 20° E., 15 lks.
dist., mkd. $\frac{1}{4}$ S. 14 B.T.
- I destroy all marks on the old $\frac{1}{4}$ sec. cor., that pertain

Subdivision of T. 4 S., R. 20 E. -Continued.

Chains	to secs. 11 and 14,
42.00	Wood road, on top of ridge, 200 ft. above hollow, bears NW and SE.
	Desc.
47.25	Bottom of hollow, 100 ft. below ridge, course SE.
	Asc.
60.25	Wood road, bears NW and SE.
61.50	Top of ridge, 200 ft. above hollow, bears NW and SE.
	Desc.
68.50	Bottom of hollow, 200 ft. below ridge, course SE.
	Asc.
70.50	Top of steep ascent, bears NW and SE.
	Ascend gradually.
76.00	Top of spur, 200 ft. hollow, bears N. and S.
	Desc.
80.00	The cor. of secs. 10, 11, 14, and 15.
	Land, mountainous.
	Soil, clay loam; 2nd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

June 18, 1906.

June 19, 1906: At 7 h. 1 m. a.m., I set off $40^{\circ} 29' N.$, on the lat. arc; $23^{\circ} 27' N.$, on the decl. arc; and determine a meridian, with the solar, at the cor. of secs. 10, 11, 14, and 15.

Thence I run
 $N. 0^{\circ} 1' W.$, bet. secs. 10 and 11.
 Over mountainous land; through heavy timber.

Subdivision of T.4 S., R.20 E.-Continued

Chains Ascend gradually.

29.00 Wood road, on top of broad ridge, bears NW and SE.
Desc. gradually.

40.00 Set a sandstone, 14x8x7 ins., 9 ins. in the ground, for
sec. cor., mkd. $\frac{1}{4}$ on W. face; from which

A cedar, 6 ins. dia., bears S. 76° E., 22 lks.
dist.. mkd. $\frac{1}{4}$ S 11° B T.

A cedar, 8 ins. dia., bears S. 50° W., 46 lks.
dist.. mkd. $\frac{1}{4}$ S 10° B T.

60.00 Begin steep descent, bears NW and SE.

64.00 Bottom of hollow, 150 ft. below sec. cor., course SE.
Asc.

72.50 Wood road, bears N. 70° W. and S. 70° E.

80.00 Set a quartzite stone, 18x9x6 ins., 12 ins. in the ground,
for cor. of secs. 2, 3, 10, and 11, mkd. with 5 notches on
S. and 2 notches on E. edges; from which

A cedar, 6 ins. dia., bears N. 48° E., 44 lks.
dist.. mkd. T 4 S R 20 E S 2 B T.

A cedar, 5 ins. dia., bears S. 24° E., 35 lks.
dist.. mkd. T 4 S R 20 E S 11 B T.

A cedar, 14 ins. dia., bears S. 64° 30' E., 36 lks.
dist.. mkd. T 4 S R 20 E S 10 B T.

A cedar, 4 ins. dia., bears N. 12° 30' W., 29 lks.
dist.. mkd. T 4 S R 20 E S 3 B T.

Land, mountainous.

Soil, clay loam and gravelly; 2nd and 3rd rate.

Timber, cedar.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

For reasons already explained I run

East, on a true line bet. secs. 2 and 11.

Over mountainous land; through heavy cedar timber.

Subdivision of T₁₂ S R 20 E -Continued.

Chains	Desc.
17.00	Bottom of hollow, 200 ft. below sec. cor., course SE. Asc.
21.00	Top of ridge, 200 ft. above hollow, bears NW and SE. Desc.
22.00	A log cabin bears S. 62° E. about 10.00 chs. dist.
34.00	Intersect Fort Thornburg Military Reservation bdy. 311 lks. S. 0° 10' E. of the $\frac{1}{4}$ sec. cor. 2 and 11 and 13.85 chs. S. 0° 10' E., of the 14th mile cor. on the Reservation bdy. cor. heretofore described. Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for closing cor. of secs. 2 and 11, mkd. C on W. P. T. M. R. on E., 5 grooves on S. and 2 grooves on E. faces; from which A cedar, 5 ins. dia., bears S. 2° W., 83 lks. dist.. mkd. T 4 S R. 20 E S 11 B T. A cedar, 4 ins. dia., bears N. 82° W., 102 lks. dist.. mkd. T 4 S R. 20 E S 2 B T.
	Land, mountainous.
	Soil, clay loam; 2nd rate.
	Timber, cedar.
	Good grass for grazing.
	Mountainous land, or heavily timbered land, 34.00 chs. June 19, 1906: At this cor. I set off 23° 26' N., on the decl. arc; and at 0 h 1 m p.m., 1 m.t., I observe the sun on the meridian, the resulting lat. is 40° 30' N., which is the proper lat. nearly.
	<hr/> Note: Knowing that the line bet. secs. 2 and 3 will inter- sect the Fort Thornburg Military Reservation I run N. 0° 1' W., on a true line bet. secs. 2 and 3. Over mountainous land; through heavy timber.

Subdivision of sec. 4 - S. R. 20 - E. - Cont'd.

- Chains Asc.
- 9.00 Top of ridge, 100 ft. above sec. cor., bears E. and W.
- Desc.
- 30.00 The mouth of a tunnel, which is the entrance to a coal mine claimed by George Gray, bears W.1.00 chs. dist.
- A cabin claimed by George Gray bears E.1.50chs. dist.
- Wagon road, bears E. and W.
- 34.00 Bottom of hollow, 1000 ft. below ridge, course S.60° E.
- Asc.
- 37.00 Road, bears E. and W.
- 40.00 Set a sandstone, 18x8x4 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; from which
- A cedar, 4 ins. dia., bears N.14° E., 35 lks. dist.. mkd. $\frac{1}{4}$ S 2 B T.
- A cedar, 7 ins. dia., bears S.76° W., 35 lks. dist.. mkd. $\frac{1}{4}$ S 3 B T.
- 54.68 Intersect Fort Thornburg Military Reservation, 15.72 chs. S.71° 26' E., from the 13th mile cor. of the bdy.
- Set a sandstone, 16x8x4 ins., 11 ins. in the ground, for closing cor. of fract. secs. 2 and 3. mkd. C C on S with 6 grooves on S., 2 grooves on E., F.T.M.R. on N. faces; from which
- A A cedar, 4 ins. dia., bears S.15° 30' E., 55 lks. dist.. mkd. T. 4 S R 20 E S 2 B T.
- A cedar, 6 ins. dia., bears S.82° W., 41 lks. dist.. mkd T 4 S R 20 E S 3 B T.
- Land, mountainous.
- Soil, black loam and rocky; 1st and 4th rate.
- Timber, cedar.
- Good grass for grazing.
- Mountainous or heavily timbered land, 54.68 chs. ✓

June 19, 1906.

Subdivision of T. 4 S., R. 20 E. -Continued

Chains	
	June 20, 1906. At 7 h 1 m a.m., l.m.t., I set off $40^{\circ} 25' N.$, on the lat. arc; $23^{\circ} 28' N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 3, 4, 33, and 34, on S. bdy. of Tp., heretofore described,
	Thence I run N. $2^{\circ} 2' W.$, bet. secs. 33 and 34.
	Over mountainous land; through heavy timber.
	Asc.
20.00	Wash, 20 lks. wide, 3 ft. deep, course SW. Road in bottom of wash.
27.75	Foot of perpendicular sandstone ledge 15 ft. high, bears NW and SE.
34.00	Top of ridge, 500 ft. above sec. cor., bears N. $20^{\circ} W.$ and S. $20^{\circ} E.$ Descend. Leave heavy and enter scattering timber, bears N. $20^{\circ} W.$ and S. $20^{\circ} E.$
40.00	Set a sandstone, 18x8x6 ins., 12 ins. in the ground, for sec. cor., mkd. $\frac{1}{2}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
48.00	Bottom of hollow, 600 ft. below ridge, course SE.
	Asc.
54.00	Top of ridge, 250 ft. above hollow, bears N. $20^{\circ} W.$ and S. $20^{\circ} E.$
	Desc.
60.00	Set a sandstone, 16x11x3 ins., 11 ins. in the ground, for cor. of secs. 27, 28, 33, and 34, mkd. with 1 notch on S. and 3 notches on E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly; 3rd rate.

Subdivision of T 4 S 7 20 -Continued

- Chains Timber, cedar.
- Good grass for grazing. ✓
- Mountainous or heavily timbered land, 80.00 chs.
- East, on a random line bet. secs. 27 and 34.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.04 Intersect N. and S. line, at the cor. of secs. 26, 27, 34, and 35.
- Thence I run
- West, on a true line bet. secs. 27 and 34.
- Over mountainous land; through scattering timber and dense undergrowth.
- Desc.
- 6.00 Bottom of hollow, 200 ft. below sec. cor., course SE.
- Asc.
- 16.40 Road, bears NE and SW.
- 37.00 Top of ascent, 200 ft. above hollow, bears NW and SE.
- Enter rolling mesa.
- Leave timber, bears NW and SE.
- 40.02 Set a quartzite stone, 16x11x6 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- 43.75 Wash, 20 lks. wide, 4 ft. deep, course SE.
- 70.85 Leave mesa, bears NW and SE,
- Desc.
- Enter scattering cedar timber, bears NW and SE.
- 78.00 Bottom of hollow, 300 ft. below mesa, course S. 20° E.
- Asc.
- 80.04 The cor. of secs. 27, 28, 33, and 34.
- Land, mountainous and rolling mesa.
- Soil, clay loam; 2nd rate.
- Timber, cedar.
- Undergrowth, sage brush.
- Good grass for grazing.

Subdivision of T.4 S., R.20E.-Continued.

Chains Mountainous land, or land covered with dense undergrowth,
80.04 chs.

June 20, 1906: At this cor. I set off 23° 27' N., on the decl. arc; and at 0 h-1-m p.m., l.m.t. I observe the sun on the meridian, the resulting lat. is 40° 26' N., which is the proper lat. nearly.

N. 0° 2' W., bet. secs. 27 and 28.

Over mountainous land; through dense undergrowth.

Desc.

6.00 Bottom of hollow, 50 ft. below sec. cor., course S. 15° E.,

Asc.

Enter scattering timber, bears N. 15° W. and S. 15° E.

22.00 Top of spur, 500 ft. above hollow, bears N. 25° W. and S. 25° E.

Desc.

35.00 Bottom of hollow, 25 ft. below spur, course S. 30° E.

Asc.

40.00 Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for
sec. cor. mkd. 4 on W. face; and raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

40.25 Top of spur, 25 ft. above hollow, bears N. 30° W. and S. 30° E.

Desc.

48.00 Bottom of hollow, 20 ft. below spur, course S. 25° E.

Asc.

80.00 Point 100 ft. above hollow.

Set a quartzite stone, 16x10x7 ins., 11 ins. in the ground, for
cor. of secs. 21, 22, 27, and 28, mkd. with 2 notches on S. and 3
notches on E. edges; from which

A cedar, 7 ins. dia., bears N. 4° E., 242 lks.

dist. mkd. T 4 S R 20 E S 22 B T.

continuation of T 4 S + 26 N (continued)

Chains A cedar, 5 ins. dia., bears S. $38^{\circ} 20' E.$, 112 lks.
dist. mkd. T 4 S R 20 E S 27 B T.

A cedar, 5 ins. dia., bears S. $68^{\circ} W.$, 215 lks.
dist. mkd. T 4 S R 20 E S 28 B T.

A cedar, 6 ins. dia., bears N. $51^{\circ} 20' W.$, 169
lks. dist. mkd. T 4 S R 20 E S 21 B T.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, scrub cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

✓
East, on a random line bet. secs. 22 and 27.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

79.96 Intersect N. and S. line, 10 lks. N. of the cor. of secs.

22, 23, 26, and 27.

Thence I run

N. $89^{\circ} 56' W.$, on a true line bet. secs. 22 and 27.

Over mountainous land; through dense sage sage brush.

In bottom of broad canon.

2.00 Leave canon bottom, bears NW and SE.

Asc.

3.50 Enter scattering cedar timber, bears NW and SE.

39.00 Top of spur, 350 ft. abv. sec. cor., bears N. $10^{\circ} W.$ and S. 10°
E.

Desc.

39.99 Set a sandstone, 15x6x5 ins., 10 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. mkd. $\frac{1}{4}$ on N. face; from which

A cedar, 10 ins. dia., bears N. $65^{\circ} E.$, 49 lks.

Survey division, S. T. 4 S. R. 20 E. -Continued.

Chains	dist. mkd $\frac{1}{4}$ S 22 B T.
	A cedar, 6 ins. dia., bears S. 70° E., 47 lbs.
	dist. mkd $\frac{1}{4}$ S 27 B T.
47.00	Bottom of hollow, 300 ft. below ridge, course S.
	Asc.
62.00	Top of spur, 300 ft. above hollow, bears N. 10° W. and S. 10° E.
	Desc.
65.00	Bottom of hollow, 50 ft. below spur, course S.
	Asc.
74.00	Top of spur, 30 ft. above hollow, bears N. and S.
	Desc.
79.98	The cor. of secs. 21, 22, 27, and 28. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 79.98 chs.

June 20, 1906.

June 21, 1906: At 7 h 1 m a.m., l.m.t., I set off 40° 27' N.,
on the lat. arc; 23° 26' N., on the decl. arc; and determine
a meridian with the solar, at the cor. of secs. 21, 22,
27, and 28.
Thence I run
N. 0° 2' W., bet. secs. 21 and 22.
Over mountainous land; through heavy timber.
Desc.

Subdivision of T. 4 S., R. 20 E. -Continued.

Chains	
10.00	Bottom of hollow, 100 ft. below sec. cor., course S. 25° W.
	Asc.
26.00	Same hollow, course S. 15° E.
	Asc.
34.00	Wood road, Brooms Vernal to Cottonwood springs, bears E. and W.
40.00	Set a quartzite stone, 18x7x4 ins., 12 ins. in the ground, for a sec. cor., mkd. $\frac{1}{4}$ on W. face; from which
	A cedar, 6 ins. dia., bears S. 42° E., 150 lks. dist. mkd. $\frac{1}{4}$ S 22 B T.
	A cedar, 4 ins. dia., bears N. 58° W., 60 lks. dist. mkd. $\frac{1}{4}$ S 21 B T.
45.00	Top of spur, 350 ft. above hollow, bears NW and SE.
	Desc.
49.75	Bottom of hollow, 50 ft. below spur, course SE.
	Asc.
78.50	Top of spur, 300 ft. above hollow, bears NW and SE.
	Desc.
80.00	Set a quartzite stone, 18x12x7 ins., 12 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, mkd. with 3 notches on S., and E. edges; with 4 S. on NE and 20E on SE faces; from which
	A cedar, 8 ins. dia., bears N. 61° 30' E., 44 lks. dist. mkd. T 4 S R 20 E S 15 B T.
	A cedar, 7 ins. dia., bears S. 59° E., 39 lks. dist. mkd. T 4 S R 20 E S 22 B T.
	A cedar, 7 ins. dia., bears S. 36° W., 30 lks. dist. mkd. T 4 S R 20 E S 21 B T.
	A cedar, 5 ins. dia., bears N. 70° W., 58 lks. dist. mkd. T 4 S R 20 E S 16 B T.
	Land, mountainous.
	Soil, clay loam, gravelly, and rocky; 2nd and 4th rate, Timber, cedar.
	Good grass for grazing.

Subdivision line Tp. S. R. 80.00 ft. in S. .

Chains	Mountainous or heavily timbered land, 80.00 chs. Note: For test of instrument see notes of Sub.T.3 S., R. 20E which test was made immediately after this Tp. was fin- ished.
40.00	S. 89° 56' E., on a random line bet. secs. 15 and 22.
80.00	Set temp. 4 sec. cor.
80.00	Intersect N. and S. line, 10 lks. S. of the cor. of secs. 14, 15, 22, and 23.
	Thence I run
	West, on a true line bet. secs. 15 and 22.
	Over mountainous land; through dense sage brush.
	Desc. gradually;
11.00	Gully, 10 ft. deep, 75 lks. wide, in hollow, 25 ft. below sec. cor., course S. 75° E.
	Asc. gradually.
38.00	Begin abrupt ascent, bears N. 60° W. and S. 60° E. Enter heavy timber, bears N. 60° W. and S. 60° E. Leave dense and enter scattering sage brush, bears N. 60° W. and S. 60° E.
40.00	Set a sandstone, 18x10x10 ins., 12 ins. in the ground, for sec. cor., mkd. $\frac{1}{4}$ on N. face; from which A cedar, 10 ins. dia., bears N. 5° E., 29 lks. dist. mkd. $\frac{1}{4}$ S 15 B T. A cedar, 12 ins. dia., bears S. 2° 45' E., 62 lks dist. mkd. $\frac{1}{4}$ S 22 B T.
51.00	Top of spur, 500 ft. above $\frac{1}{4}$ sec. cor., bears N. 75° W. and S. 75° E.
	Desc.
54.00	Bottom of hollow, 20 ft. below spur, course SE.
	Asc.
69.50	Top of ridge, 300 ft. above hollow, bears N. 15° W. and S. 15° E.
	Desc.

Subdivision of T.4 S., R.20 E.-Continued.

Chains

75.00 Bottom of hollow, 250 ft. below ridge, course S.30°E.

Asc.

80.00 The cor. of secs. 15,, 16, 21, and 22.,

Land, mountainous .

Soil, clay loam and rocky; 2nd and 4th rate.

Timber, cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.

June 21, 1906: At this cor. I set off 23° 27' N., on the decl. arc; and at 0 h. 1-m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 28' N., which is the proper lat. nearly.

N.0° 2'W., bet. secs. 15 and 16.

Over mountainous land; through heavy timber.

Desc.

3.00 Bottom of hollow, 30 ft. below sec. cor., course S.60°E.

Asc. along east side of hollow.

17.00 Top of ridge, 100 ft. above hollow, bears N.35°W. and E.35° E.

Desc.

40.00 Set a sandstone, 15x11x5 ins., 10 ins. in the ground, for sec. cor.. mkd. $\frac{1}{4}$ on W. face; from which

A cedar, 8 ins. dia., bears N.62° 30'E., 54 lks dist.. mkd. $\frac{1}{4}$ S. 15 B.T.

A cedar, 5 ins. dia., bears S.75°W., 23 lks.

dist.. mkd. $\frac{1}{4}$ S 16 B.T.

42.00 Bottom of hollow, 300 ft. below ridge, course S.65°E.

Asc.

Subdivision of T.4-S R.20.E -Continued

Chains	
48.00	Top of spur, 75 ft. above hollow, bears N.75°W. and S.75°E. Desc.
57.75	Bottom of hollow, 40. ft. below spur, course E. Asc.
70.00	Top of spur, 60 ft. above hollow, bears E. and W. Desc.
76.50	Leave timber and enter dense sage brush, bears E. and W.
76.75	Gully, 50 lks. wide, 15 ft. deep, course E. Asc.
80.00	Top of low spur, 30 ft. above gully, bears E. and W. Set a quartzite stone, 18x11x10 ins., 12 ins. in the ground, for cor. of secs. 9, 10, 15, and 16, mkd. with 4 notches on S. and 3 notches on E. edges; from which A cedar, 12 ins. dia., bears N.27°W., 72 lks. dist. mkd T 4 S R 20 E. S 9 B T. No other trees within limits; raise a mound of stone, 2 ft. base, 18 ft. high, W. of cor. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
40.00	East, on a random line, bet. secs. 10 and 15. Set temp. & sec. cor.
78.90	Intersect N. and S. line, 7 lks. N. of the cor. of secs. 10, 11, 14, and 15. Thence I run N.89°57'W., on a true line bet. secs. 10 and 15.

Subdivision of T. 4-S. R. 20-E.-Continued.

Chains	Over mountainous land; through heavy timber . Desc.
7.00	Hollow, 10 ft. below sec.cor., course S.30°E. Asc.
11.00	Wood road, bears N.20°W. and S.20°E.
12.00	Top of ridge, 50 ft. above sec.cor., bears N.20°W. and S.20°E.
	Desc.
12.50	Leave timber, bears N.20°W. and S.20°E.
	Enter dense sage brush, bears N.20°W. and S.20°E.
13.50	Bottom of hollow, 75 ft. below spur, course S.20°E. Asc.
20.50	Leave sage brush, and enter heavy timber, bears N.20°W. and S.20°E.
39.95	Set a sandstone, 18x10x4, ins., 12 ins. in the ground, for $\frac{1}{2}$ sec.cor. mkd. $\frac{1}{4}$ on N. face; from which A cedar, 5. ins. dia., bears N.44°W., 16 lks. dist. 0. mkd. $\frac{1}{4}$ S. 10°B. T.
	A cedar, 11 ins. dia., bears S.32°W., 22 lks. dist. mkd. $\frac{1}{4}$ S. 15 B. T.
46.00	Top of spur, 150 ft. above hollow, bears NW and SE.
	Desc.
50.00	Bottom of hollow, 50 ft. below spur, course SE.
	Asc.
56.00	Top of ridge, 50 ft. above hollow, bears N.20°E. and S.20°W.
	Desc.
65.00	Bottom of hollow, 75 ft. below ridge course S.20°E.
	Asc.
66.00	Top of spur, 20 ft. above hollow, bears N. and S.
	Desc.
72.00	Gully, 15 ft. deep, in hollow, 40 ft. below spur, course SE.
	Asc. point of spur, bears W.
79.90	The cor. of secs. 8, 10, 15, and 16. Land, mountainous. Soil, gravelly; 3rd rate.
	Timber, cedar.
	Undergrowth, sage brush.

Division of 4 S. P. F. Cont. sec.

- Chains Good grass for grazing.
Mountainous or heavily timbered land, or land covered with dense undergrowth, 79.90 chs.

June 21, 1906.

June 22, 1906. At 7 h 2 m a.m., l.m.t., I set off $40^{\circ} 29' N.$, on the lat. arc; $25^{\circ} 26' N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 9, 10, 15, and 16.

Thence I run

$N.0^{\circ} 2' W.$, bet. secs. 9 and 10.

Over mountainous land; through dense sage brush.

desc.

.75 Bottom of hollow, 15 ft. deep, course E.

Asc.

5.00 Top of spur, 20 ft. above, bears NW and SE.

DEsc.

6.75 Bottom of hollow, 60 ft. below spur, course SE.

Enter scattering timber, bears NW and SE.

Asc.

17.75 Enter heavy timber, bears $N.60^{\circ} W.$ and $S.60^{\circ} E.$

22.25 Top of ridge, 200 ft. above hollow, bears $N.60^{\circ} W.$ and $S.60^{\circ} E.$

Desc.

30.00 Bottom of hollow, 75 ft. below ridge, course $S.70^{\circ} E.$

Asc.

33.00 Top of spur, 50 ft. above hollow, bears $N.75^{\circ} W.$ and $S.75^{\circ} E.$

Desc.

37.00 Wood road, bears $N.75^{\circ} W.$ and $S.75^{\circ} E.$

Subdivision of T.4 S., R.20 E.-Continued.

Chains

39.00 Bottom of hollow, 75 ft. below spur, course S.75° E.

Asc.

40.00 Set a sandstone, 18x13x8 ins. 12 ins. in the ground, for
 $\frac{1}{2}$ sec. cor.. mkd., $\frac{1}{4}$ on W. face; from whichA cedar, 13 ins. dia., bears S.36° E., 27 lks.
dist.. mkd. $\frac{1}{4}$ S 10 B T.A cedar, 12 ins. dia., bears S.31° W., 33 lks.
dist.. mkd. $\frac{1}{4}$ S 9 B T.

41.00 Wood road, bears N.70° W. and S.70° E.

45.50 Top of spur, 60 ft. above hollow, bears N.80° W. and S.80°
E.

Desc.

49.00 Bottom of hollow, 50 ft. below spur, course S.80° E.

Asc.

64.00 Top of spur, 75 ft. above hollow, bears N.80° W. and S.80°
E.

Desc.

74.50 Bottom of hollow, 120 ft. below spur, course S.80° E.

Asc.

80.00 Set a limestone, 15x10x5 ins. 10 ins. in the ground, for
cor. of secr. 3, 4, 9, and 10, mkd. with 5 notches on S. end 3
notches on E. edges; from whichA cedar, 4 ins. dia., bears N.62° E., 19 lks.
dist.. mkd. T 4 S R 20 E S 3 B T.A cedar, 10 ins. dia., bears S.36° 30' E., 16
lks. dist.. mkd. T 4 S R 20 E S 10 B T.A cedar, 8 ins. dia., bears S.46° W., 22 lks.
dist.. mkd. T 4 S R 20 E S 9 B T.A cedar, 12 ins. dia. bears N.49° W., 49 lks.
dist.. mkd. T 4 S R 20 E S 4 B T.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar.

Subdivision of T 4 S., R 20 E - Continued.

Chains	Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
	S. 89° 57' E., on a random line bet. secs. 3 and 10.
40.00	Set temp. \pm sec. cor.
80.00	Intersect. N. and S. line, 20 lks. S. of the cor. of secs. 2, 3, 10, and 11. Thence I run S. 89° 54' W., on a true line bet. secs. 3 and 10. Over mountainous land; through heavy timber. Asc.
11.00	Top of ridge, 200 ft. above sec. cor., bears N. 30° W. and S. 30° E. Desc.
22.00	Bottom of hollow, 300 ft. below ridge, course S. 55° E. Asc.
37.00	Top of spur, 300 ft. above hollow, bears NW and SE. Desc.
40.00	Set a limestone, 14x12x10 ins., 9 ins. in the ground, for \pm sec. cor. mkd. \pm on N. face; from which A cedar, 4 ins. dia., bears N. 11° E. 14 lks. dist. mkd. \pm S 3 B T. A cedar, 6 ins. dia., bears S. 35° W., 16 lks. dist. mkd. \pm S 10 B T.
43.00	Bottom of hollow, 150 ft. below spur, course SE. Asc.
44.65	Wood road, on top of ridge, 50 ft. above hollow, bears N. and S. Desc.
45.25	Wood road, bears NW and SE.

Subdivision of T 4 S - R 20 E - Continue running N.E.

Chains	
70.00	Bottom of hollow, 150 ft. below spur, course SE.
Asc.	
73.00	Top of ridge, 300 ft. above hollow, bears NE and SW.
Desc.	
76.50	Bottom of hollow, 300 ft. below ridge, course SE.
78.00	Spur, 350 ft. above hollow, bears NW and SE.
Desc.	
80.00	The cor. of secs. 3, 4, 9, and 10.
Land, mountainous.	
Soil, gravelly; 3rd rate.	
Timber, cedar.	
Good grass for grazing.	
Mountainous or heavily timbered land, 80.00 chs.	
June 22, 1906: At the noon hour the sky is overcast and solar observations are impossible.	

Note: Knowing that the line bet. secs. 3 and 4 will not intersect the N.bdy. within limits;

I run

$11^{\circ} 2' W.$, on true line bet. secs. 3 and 4.

Over mountainous land; through heavy timber.

Asc.

3.54 Top of spur, 50 ft. above sec.cor., bears NW and SE.

Desc.

6.50 Bottom of hollow, 400 ft. below spur, course E.

Asc.

16.00 Top of ridge, 300 ft. above hollow, bears E. and W.

Desc.

24.15 Bottom of hollow, 300 ft. below ridge, course SE.

Asc.

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Subdivision of T. 4 S., R. 20 E.- Continued.

- Chains. 40.00 Set a sandstone 16x7x5 ins., 11 ins.in the ground for $\frac{1}{2}$ sec.cor., mkd. $\frac{1}{2}$ on W.face; from which
A cedar 5 ins.dia.bears S.63° 50'E. 12 lks.dist.
mkd. $\frac{1}{2}$ S 3 B T
A cedar 5 ins.dia.bears S.45° 15'W. 21 lks.dist.
mkd. $\frac{1}{2}$ S 4 B T
Continue gradual ascent.
- 81.54 Intersect South boundary of the Fort Thornburg Military Reservation,
Set a quartzite stone 16x12x4 ins., 11 ins.in the ground, for closing cor.of secs.3 and 4, mkd.C C on S., with 3 grooves on E. and W.faces, FTMR on N. face; from which
A cedar, 14 ins.dia.bears S.54° E. 27 lks.dist.
mkd. T 4 S R 20 E S 3 B T
A cedar 6 ins.dia.bears S.35° W. 60 lks.dist.
mkd. T 4 S R 20 E S 4 B T
From this closing cor.the 12th mile cor.on the bdy. bears as follows:
N.71° 26'W. 12.15 chs.to mile cor.No.12.
I destroy all marks on the cor.of secs.3,4,33, and 34 that pertain to secs.3 and 4,
Land mountainous.
Soil gravelly; 3d rate.
Timber cedar.
Good grass for grazing.
Mountainous or heavily timbered land 81.54 chs.

June 22, 1906.

June 23, 1906: At 7h.2m.a.m.l.m.t.I set off 40° 25'N. on the lat.arc; 33° 28'N.on the decl.arc; and determine a meridian with the solar at the cor.of secs.4, 5,32, and 33, on S.bdy.of Tp., heretofore described.

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Subdivision of T. 4 S., R. 20 E.-- Continued.

- Chains. Thence I run
N.0°2'W.bet.secs.32 and 33,
Over mountainous land; through dense undergrowth.
Asc.
8.00 Enter scattering cedar timber, bears N.60° E. and S.
60° W.
12.00 Top of spur, 30 ft.above sec.cor., bears N.E. and S.W.
Desc.
31.00 Bottom of hollow, 30 ft.below spur, course S.40° W.
Asc.
40.00 Set a sandstone 16x8x6 ins., 11 ins.in the ground, for
 $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W.face; and raise a mound of
stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
45.00 Top of spur, 150 ft.above hollow, bears N.30° E. and
S.30° W.
Desc.
53.50 Bottom of hollow, 100 ft.below spur, course S.75° W.
Asc.
63.25 Top of ridge, 200 ft.above hollow, bears N.60° E. and
S.60° W.
Desc.
75.00 Bottom of hollow, 150 ft.below ridge, course SW.
Asc.
80.00 Set a quartzite stone 16x8x6 ins., 11 ins.in the ground
for cor.of secs.28,29,32, and 33, mkd. with 1 notch
on S. and 4 notches on E.edges; and raise a mound of
stone 2 ft.base, $1\frac{1}{2}$ ft.high W.of cor.
Land mountainous.
Soil gravelly; 3rd rate.
Timber cedar.
Undergrowth sagebrush.
Good grass for grazing.
Mountainous land, or land covered with dense under-
growth 80.00 chs.

Spur vision from S. R. 20 - continued

- Chains East, on a random line bet. secs. 28 and 33.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 79.80 Intersect N. and S. line, 10 lks. S. of the cor. of secs. 27, 28, 33, and 34.
- Thence I run
S. $89^{\circ} 56' W.$, on a true line bet. secs. 28 and 33.
- Over mountainous land; through scattering cedars.
- Asc.
- 6.00 Top of spur, 150 ft. above sec. cor., bears N. $10^{\circ} W.$ and S. $10^{\circ} E.$
- Desc.
- 15.00 Bottom of hollow, 200 ft. below spur, course S. $30^{\circ} E.$
- Asc.
- 34.00 Top of steep ascent, 300 ft. above hollow, bears N. $70^{\circ} W.$ and S. $70^{\circ} E.$
- Continue gradual ascent
- 39.90 Set a quartzite stone, 16x8x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor. mka. $\frac{1}{4}$ on N. face; from which
A cedar, 6 ins. dia., bears N. $81^{\circ} 30' W.$, 122 lks.
dist. mka. S 28 B T.
- No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 57.00 Top of ridge, 300 ft. above hollow, bears NW and SE.
- Desc.
- 67.00 Bottom of hollow, 250 ft. below ridge, course S.
- Asc.
- 74.00 Low ridge, 100 ft. above hollow, bears N. and S.
- Desc.
- 79.80 The cor. of secs. 28, 29, 32, and 33.
- Land, mountainous
- Soil, gravelly; 3rd rate.
- Timber, cedar.
- Good grass for grazing.
- Mountainous land, 79.80 chs.

Subdi. section of T. 4 S. R. 20 E. -C in time of observation.

- Chains June 23, 1905: At the noon hour the sky is overcast and solar observations are impossible.
- 14.00 Top of spur, 75 ft. above sec. cor., bears E. and W.
- Desc.
- 18.25 Bottom of hollow, 80 ft. below spur, course S. 30° W.
- Asc.
- 27.00 Top of ridge, 200 ft. above hollow, bears N. 20° W. and S. 30° E.
- Desc.
- 34.00 Bottom of hollow, 15 ft. below ridge, course S. 30° E.
- Asc.
- 40.00 Set quartzite stone, 15x10x4 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 41.00 Top of spur, 25 ft. above hollow, bears N. 20° W. and S. 20° E.
- Desc. gradually.
- 60.50 Begin steep descent, bears NW and SE.
- 63.50 Bottom of hollow, 100 ft. below spur, course SE.
- Asc.
- 67.00 Spur, 100 ft. above hollow, bears N. 20° W. and S. 20° E.
- Desc. gradually.
- 80.00 Set a quartzite stone, 16x8x4 ins., 11 ins. in the ground, for cor. of secs. 20, 21, 28, and 29, mkd. with 2 notches on S. and 4 notches on E. edges; from which
- A cedar, 6 ins. dia., bears N. 30° E., 152 lks.
dist. mkd. T 4 S R 20 E S 21 B T.
- A cedar, 8 ins. dia., bears S. 80° 45' E., 84 lks.
dist. mkd. T 4 S R 20 E S 28 B T.

Subdivision of T.4 S., R.26 E.-Continued.

Chains	No other trees within limits; raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar.
	Good grass for grazing.
	Mountainous land, 80.00 chs.
	N. $89^{\circ} 56' E.$, on a random line bet. secs. 21 and 28.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
60.00	Intersect N. and S. line, 10 lks. N. of the cor. of secs. 21, 22, 27, and 28.
	Thence I runn
	West, on a true line bet. secs. 21 and 28.
	Over mountainous land; through scattering cedar timber and scattering sage brush.
	Desc. gradually.
4.00	Begin abrupt descent, bears N. $20^{\circ} E.$ and S. $20^{\circ} W.$
8.00	Bottom of hollow, 200 ft. below sec. cor., course S. $20^{\circ} W.$
	Asc.
14.00	Top of spur, 200 ft. above hollow, bears N. and S.
	Desc.
18.00	Bottom of hollow, 40 ft. below spur, course S.
	Asc.
40.00	Top of spur, 40 ft. above hollow, bears N. and S.
	Set a quartzite stone, 16x8x4 ins., 11 ins. in the ground, for $\frac{1}{2}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
	Desc.
45.00	Bottom of hollow, 200 ft. below spur, course S. $30^{\circ} E.$
	Asc.
48.50	Spur, 200 ft. above hollow, bears N. $20^{\circ} W.$ and S. $20^{\circ} E.$

Subdivision of T.4-S. P.20 E. Continued.

Chains	Desc.
51.00	Hollow, 100 ft. below spur, course S.10°E. Asc.
54.00	Tcp of steep ascent, 150 ft. above hollow, bears N.10°E. and S.10°W.
70.00	Top of spur, 200 ft. above hollow, bears N. and S. Desc.
75.00	Bottom of hollow, 40 ft. below spur, course S. Asc.
80.00	The cor. of secs. 26, 21, 28, and 29. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, 80.00 chs.

June 23, 1906.

June 24, 1906: At 7 h 2 m a.m., l.m.t., I set off $40^{\circ} 27' N.$, on the lat. arc; $23^{\circ} 27' N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 20, 21, 28, and 29.

Thence I run

N. $0^{\circ} 2' W.$, bet. secs. 20 and 21.

Over mountainous land; through scattering cedar timber and sage brush.

Asc. gradually along east side of spur which bears N. and S.

40.00 Head of hollow, course S.10°E., 60 ft. above sec.cor.
Set a sandstone, 15x12x4 ins., 10 ins. in the ground, for
sec.cor.. mkd. on W. face; from which

Subdivision of T. 4 S. 20 W.

	A cedar, 8 ins. dia., bears S. 41° E., 55 lks. dist.. mkd. T S 21 B T.
	A cedar, 4 ins. dia., bears S. 83° W., 158 lks. dist.. mkd. T S 20 B T.
	Continue ascent.
46.00	Top. of spur, 20 ft. above hollow, bears N. 30° W. and S. 30° E. Desc. gradually.
48.00	Begin abrupt descent, bears NW and SE. Enter heavy timber, bears NW and SE.
55.00	Bottom of hollow, 200 ft. below spur, course SE. Asc.
76.00	Leave heavy and enter scattering timber, bears E. and W.
80.00	Top. of spur, 100 ft. above hollow, bears N. 10° W. and S. 10° E. Set a sandstone, 15x10x4 ins., 10 ins. in the ground, for cor. of secs. 16, 17, 20, and 21, mkd. with 3 notches on S. and 4 notches on E. edges; from which A cedar, 6 ins. dia., bears N. 37° E., 147 lks. dist.. mkd. T 4 S R 20 E S 16 B T. A cedar, 7 ins. dia., bears S. 72° E., 312 lks. dist.. mkd. T 4 S R 20 E S 21 B T. A cedar, 5 ins. dia., bears S. 61° 30' W., 102 lks. dist.. mkd. T 4 S R 20 E S 20 B T. A cedar, 5 ins. dia., bears N. 62° W., 112 lks. dist.. mkd. T 4 S R 20 E S 17 B T.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or heavily timbered land, 80.00 chs.

Subdivision of T. S. & 20 E -Continued

- Chains East on a random line bet.secs.16 and 21.
- 40.00 Set temp. $\frac{1}{4}$ sec.cor.
- 80.00 Intersect N.and S.line,7 lks.N.of the cor.of secs. 15,16,21, and 22..
- Thence I run N.89°57'W.,on a true line bet.secs.16 and 21.
- Over mountainous land;through heavy timber .
- Asc.
- 2.00 Top of spur,10 ft.above sec.cor.,bears N.20°W.and S.20° E.
- Desc.
- 10.50 Bottom of hollow,200 ft.below spur,course S.20°E.
- Asc.
- 14.50 Top of spur,80 ft.above hollow,bears N.20°W.and S.20°E.
- Desc.
- 16.50 Bottom of hollow,40 ft.below spur,course S.20°E.
- Asc.
- 18.00 Top of spur,30 ft.above hollow,bears N. and S.20°E.
- Desc.
- 26.00 Bottom of hollow,250 ft.below spur,course S.20°E.
- Asc.
- 31.50 Spur,150 ft.above hollow,bears N.15°W.and S.15°E.
- Desc.
- 40.00 Bottom of hollow,100 ft.below spur,course S.20°E.
- Set aquartzite stone,16x8x4 ins.,11 ins.in the ground,for $\frac{1}{4}$ sec.cor..mkd. $\frac{1}{4}$ on N.face;from which
- A cedar,5 ins.dia.,bears N.38°E.,27 lks.
dist..mkd. $\frac{1}{4}$ S.16 B T.21 B T.21 B T.21 B T.
- A cedar,10 ins.dia.,bears S.24°E.,36 lks.
dist..mkd. $\frac{1}{4}$ S.21 B T.21 B T.21 B T.21 B T.
- Asc.
- 44.00 Top of spur,100 ft.above hollow,bears N. and S.20°E.
- Desc.
- 48.00 Ravine which drains cottonwood springs,20 lks.wide,10 ft.deep,in hollow,200 ft.below spur,course S.20°W.

Subdivision of T. 4. S., R. 20. E. Continued.

Chains	Cottonwood springs bears N. 20° E., about 6.00 chs. dist. Asc.
48.50	Wood road, from Vernal to Cottonwood springs, bears NW. and SE.
51.00	Top of spur, 20 ft. above ravine, bears N. and S. Desc.
68.00	Bottom of hollow, 100 ft. below spur, course S. Asc.
77.00	Leave heavy and enter scattering cedars and sage brush bears N. and S.
80.00	The cor. of secs. 16, 17, 20 and 21. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, 80.00 chs. June 24, 1906: At this cor. I set off 23° 26' N., on the decl. arc; and at 0 h 2 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 28' N., which is the proper lat. nearly.
22.00	N. 0° 2' W., bet. secs. 16 and 17. Over mountainous land; through heavy timber. Asc. gradually along east side of ridge.
40.00	Wood road, bears N. 30° W. and S. 75° E. Set a quartzite stone, 15x8x5 ins., 10 ins. in the ground for sec. cor.. mkd. on W. face; from which A cedar, 4 ins. dia., bears N. 71° E., 32 lks. dist. mkd. $\frac{1}{4}$ S 16 B T. A cedar, 9 ins. dia., bears S. 45° W. 10. lks dist. mkd. $\frac{1}{4}$ S 17 B T. A small spring bears N. 65° W., about 10.00 chs.

Subdivision of T.4 S., R.20 E.-Continued.

Chains

56.00 Top of spur, 150 ft. above sec.cor., bears N.60°E. and S.60°W.

Desc.

58.50 Bottom of hollow, bourse SW.

Asc.

63.00 Top of ridge, 60 ft. above hollow, bears NE and SW.

DEsc.

71.50 Bottom of hollow, 100 ft. below ridge, course S.30°W.

Asc.

80.00 Point 250 ft. above hollow.

Set a quartzite stone, 18x10x5 ins., 12 ins. in the ground, for cor.of secs. 8, 9, 16, and 17, mkd. with 4 notches on S., and E.edges; from which

A cedar, 5 ins. dia., bears N.40°E., 136 lks.

dist..mkd.T 4 S R 20 E S 9 B T.

A cedar, 4 ins. dia., bears S.3°E., 44 lks.

dist..mkd.T 4 S R 20 E S 16 B T.

A cedar, 6 ins. dia., bears S.10°W., 47 lks.

dist..mkd.T 4 S R 20 E S 17 B T.

A cedar, 5 ins. dia., bears N.44°W., 76 lks.

dist..mkd.T 4 S R 20 E S 8 B T.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar.

Good grass for grazing.

Mountainous or heavily timbered land, 80.00 chs.

S.89°57'E., on a random line bet.sec.cor. 9 and 16.

40.00 Set temp. & sec.cor.

60.20 Intersect N.and S.line, 7 lks.S.of the cor.of secs. 9, 10,

Subdivision of T. 4 S., R. 20 E. - Contin.

Chains	15, and 16. Thence I run West, on a true line bet. secs. 9 and 16. Over mountainous land; through dense sage brush. Asc. gradually along south side of hollow.
11.00	Enter scattering cedar timber, bears N. and S.
12.00	Bottom of hollow, 25 ft. above sec. cor., course N. 80° E. Asc. bottom of hollow.
16.00	Leave hollow, and ascend, bears NW and S. 80° E.
27.50	Foot of perpendicular sandstone and conglomerate ledge, 25 ft. high, bears N. and S.
33.00	Top of ridge, 400 ft. above hollow, bears N. 20° W. and S. 20° E. Enter heavy timber, bears N. 20° W. and S. 20° E. Desc.
36.00	Bottom of hollow, 30 ft. below ridge, course S. Asc.
37.50	Top of spur, 20 ft. above hollow, bears N. and S. Desc.
40.10	Set a quartzite stone, 15x8x5 ins., 10 ins. in the ground, for sec. cor. mkd. $\frac{1}{4}$ on N. face; from which A cedar, 4 ins. dia., bears N. 38° E., 18 lks. dist. mkd. $\frac{1}{4}$ S 9 B T. A cedar, 10 ins. dia., bears S. 43° E., 54 lks. dist. mkd. $\frac{1}{4}$ S 16 B T.
53.00	Bottom of hollow, 300 ft. below spur, course S. 20° E. There are a few cottonwoods in this hollow. Asc.
60.50	Top of ridge, 250 ft. above hollow, bears N. 20° W. and S. 20° E. Desc.
66.50	Bottom of hollow, 60 ft. below ridge, course S. 20° E. Asc.
70.50	Top of spur, 50 ft. above hollow, bears N. and S. Desc;

Subdivision of T 4 S R 20 E -Continued

Chains	.61	in. 61, incl. 28.
75.50	Bottom of hollow, 50 ft. below spur, course S.15°W.	
Asc.		
78.50	Top of ridge, 50 ft. above hollow, bears N. and S.	
Desc.		
80.20	The cor. of secs. 8, 9, 16, and 17.	
Land, mountainous.		
Soil, gravelly and clay; 3rd rate.		
Timber, cedar.		
Undergrowth, sage brush.		
Good grass for grazing.		
Mountainous or heavily timbered land, or land covered with dense undergrowth, 80, 20 chs.		

June 24, 1906.

June 25, 1906. At 7 h 2 m a.m., l.m.t., I set off $40^{\circ} 29'N.$, on the lat. arc; $23^{\circ} 26'N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of secs. 8, 9, 16, and 17. Thence I run

N.0° 2'W., bet. secs. 8 and 9.

Over mountainous land; through heavy timber.

Asc. gradually along west slope of ridge.

40.00 Set a quartzite stone, 18x8x8 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. $\frac{1}{2}$ on W. face; from which

A cedar, 4 ins. dia., bears N.55°E., 51 lks.

dist. mkd. $\frac{1}{4}$ S 9 B T.

A cedar, 5 ins. dia., bears N.73°W., 63 lks.

dist. mkd. $\frac{1}{4}$ S 8 B T.

49.00 Top of spur, 175 ft. above sec. cor., bears NE and SW.

Desc.

52.75 Bottom of hollow, 75 ft. below spur, course SW.

Asc.

Subdivision of T.4 S., R.20 E.-Continued.

Chains	
63.00	Wood road, on top of ridge, 50 ft. above hollow, bears NW and SE.
Desc.	
71.50	Bottom of hollow, 50 ft. below ridge, course S.25°E.
Asc.	
80.00	Set a quartzite stone, 18x8x5 ins., 12 ins. in the ground, for cor. of secs. 4, 5, 8, and 9, mkd. with 5 notches on S. and 4 notches on E. edges; from which
	A cedar, 11 ins. dia., bears N.75°E., 81 lks. dist. mkd. T 4 S R 20 E S 4 B T.
	A cedar, 10 ins. dia., bears S.49°E., 91 lks. dist. mkd. T 4 S R 20 E S 9 B T.
	A cedar, 8 ins. dia., bears S.32°W., 80 lks. dist. mkd. T 4 S R 20 E S 8 B T.
	A cedar, 24 ins. dia., bears N.20°W., 38 lks. dist. mkd. T 4 S R 20 E S 5 B T.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar.
	Good grass for grazing.
	Mountainous or heavily timbered land, 80.00 chs.

East, on a random line bet. secs. 4 and 9.

40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.24	Intersect N. and S. line, 19 lks. N. of the cor. of secs. 8, 4, 9, and 10.
	Thence I run N.89° 52' W., on a true line, bet. secs. 4 and 9.
	Over mountainous land; through heavy cedar timber. a
	Asc.
12.00	Top of spur, 60 ft. above bears N.20°W. and S.20°E.

Subdivision of T 4 S. 7 20 E. Continuation.

Chains	Desc.
20.00	Bottom of hollow, 100 ft. below spur, course S. 65° E. Asc.
27.50	Top of spur, 150 ft. above hollow, bears N. 60° E. and S. 60° W. Desc.
31.00	Bottom of hollow, 50 ft. below spur, course N. 65° E. Asc.
33.00	Top of spur, 50 ft. above hollow, bears N. and S. Desc.
38.00	Bottom of hollow, 40 ft. below spur, course S. 70° E. Asc.
40.12	Set a quartzite stone, 16x9x4 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; from which A cedar, 9 ins. dia.; bears N. 1° E., 28 lks. dist. mkd. $\frac{1}{4}$ S 4 B.T. A cedar, 9 ins. dia.; bears S. 56° 30' E., 46 lks. dist. mkd. $\frac{1}{4}$ S 9 B.T.
58.00	Conglomerate ledge, 30 ft. high, bears N. and S.
62.00	Top of ridge, 500 ft. above hollow, bears N. 25° W. and S. 25° E. Desc.
70.50	Bottom of hollow, 100 ft. below spur, course S. 10° E. Asc.
76.00	Top of spur, 50 ft. above hollow, bears N. 20° E. and S. 20° W. Desc.
80.24	The cor. of secs. 4, 5, 8, and 9. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Good grass for grazing. Mountainous or heavily timbered land, 80.24 chs. June 25, 1906: At the noon hour the sky is overcast and solar observations are impossible.

Location of T 4 S 1 R 20 E Cor in 32d sec.

Chains

Note: For reasons already explained

I run

N.0°2'W., on a true line bet. secs. 4 and 5.

Over mountainous land; through heavy cedar timber.

Asc.

26.00 Top of ridge, 150 ft. above sec. cor., bears N.60° W. and SE.

Leave heavy timber and enter scattering timber and scattering sage brush, bears NW and SE.

Desc.

28.00 A small spring bears N.74° E. about 15.00 chs. dist. Discharge about 5 gal. per min.

32.00 Bottom of hollow, 250 ft. below ridge, course S.70° E.

Asc.

A spring in this hollow bears N.70° W. about 10.00 chs. dist.; it flows about 2 gals. per min.

34.00 Leave timber, bears N.70° W. and S.70° E.

40.00 Set a sandstone, 18x9x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

67.50 Ridge, 40 ft. above hollow, bears N.60° W. and S.60° E. Desc. 82.00 Intersect N. bdy. of Tp., 7.40 chs. East of the cor. of

secs. 4, 5, 32, and 33, heretofore described.

Set a quartzite stone, 20x11x7 ins., 15 ins. in the ground, for closing cor. of secs. 4 and 5, mkd. C.C. on S., with 4 grooves on E. and 2 grooves on W. faces; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor.

Note: I destroy all marks on the cor. of secs. 4, 5, 32, and 33, which pertain to secs. 4 and 5.

Land, mountainous.

Soil, gravelly; 3rd rate.

Timber, cedar.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous or heavily timbered land, 82.00 chs.

Subdivision of T 4-S R 50 E - C. I. M. A.

Chains.

June 26, 1906: At 7 h. 2 m a.m., l.m.t., I set off $40^{\circ} 25' N.$,
 on the lat. arc; $23^{\circ} 25' N.$, on the decl. arc; and determine
 a meridian with the solar, at the cor. of secs. 5, 6, 31,
 and 32., on S. bdy. of Tp., heretofore described.
 Thence I run
 $N. 0^{\circ} 3' W.$, bet. secs. 31 and 32.
 Over mountainous land; through scattering timber and
 scattering sage brush.
 Desc. gradually.
 9.00 Begin abrupt descent, bears NW and SE.
 13.00 Old road, bears E. and W.
 13.50 Hollow, 100 ft., below sec. cor., course $S. 70^{\circ} E.$
 Asc.
 19.00 Top of spur, 40 ft. above hollow, bears E. and W.
 Desc.
 34.75 Bottom of hollow, 30 ft. below spur, course E.
 Asc.
 40.00 Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone,
 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 40.50 Top of spur, 50 ft. above hollow, bears E. and W.
 Desc.
 48.50 Bottom of hollow, 60 ft. below spur, course $S. 60^{\circ} E.$
 Asc.
 61.00 Top of spur, 50 ft. above hollow, bears $N. 60^{\circ} W.$ and $S. 30^{\circ} E.$
 Desc.
 65.00 Bottom of hollow, 50 ft. below spur, course SE.
 Asc.
 80.00 Set a quartzite stone, 16x8x5 ins., 11 ins. in the ground, for
 cor. of secs. 29, 30, 31, and 32, mkd. with 1 notch on S. and
 5 notches on E. edges; and raise a mound of stone, 2 ft.
 base, $1\frac{1}{2}$ ft. high, W. of cor.
 Land, mountainous.

Subdivision off T. 4, S. 4 R. 20 E. continuing

Chains

Soil, gravelly; 3rd rate.
 Timber, cedar.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous land, 80.00 chs.

V
 Estt, on a random line bet. secs. 29 and 32.

- 40.00 Set temp. $\frac{1}{2}$ sec. cor.
 80.02 Intersect N. and S. line, 7 lks. S. of the cor. of secs.
 28, 29, 32, and 33.
 Thence I run
V
 S. $89^{\circ} 57' W.$, on a true line bet. secs. 29 and 32.
 Over mountainous land; through scattering sage brush.
 Desc.
 4.50 Bottom of hollow, 30 ft. below sec. cor., course S.
 Asc.
 6.00 Top of spur, 25 ft. above hollow, bears N. and S.
 Desc.
 27.00 Bottom of hollow, 60 ft. below spur, course S.
 Asc.
 30.00 Top of spur, 30 ft. above hollow, bears N. and S.
 Desc.
 38.00 Bottom of hollow, 40 ft. below spur, course S. $15^{\circ} E.$
 There is a seeping spring in bottom of hollow on line.
 Asc.
 40.01 Set a sandstone, 20x8x5 ins., 15 ins. in the ground, for
 $\frac{1}{2}$ sec. cor.. mkd. $\frac{1}{2}$ on N. face; and raise a mound of stone,
 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 45.00 Begin abrupt ascent, bears N. and S.
 50.00 Top of ridge, 100 ft. above hollow, bears N. and S.
 Enter scattering timber, bears N. and S.

Subdivision of T. 4. S., R. 20. E.-Continued.

Chains	Desc.
57.00	Bottom of hollow, 125 ft. below ridge, course S. 15° E.
	Asc.
70.00	Top of spur, 40 ft. above hollow, bears N. 20° W. and S. 20° E.
	Desc.
71.50	Bottom of hollow, 15 ft. below spur, course S. 30° E.
	Asc.
78.00	Top of spur, 30 ft. above hollow, bears NW and SE.
	Desc.
80.02	The cor. of secs. 29, 30, 31, and 32.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, 80.02 chs.
	West, on a random line bet. secs. 30 and 31.
40.00	Set temp. \pm sec. cor.
87.84	Intersect W. bdy. of Tp., 18 lks. S. of the cor. of secs. 25, 30, 31, and 36, heretofore described.
	Thence I run S. 89° 52' E., on a true line bet. secs. 30 and 31.
	Over mountainous land; through scattering timber and scattering undergrowth.
	Desc.
28.00	Bottom of hollow, 100 ft. below sec. cor., course S. 30° E.
	Asc.
47.84	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for sec. cor. mkd. \pm on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
63.00	Top of ridge, 400 ft. above hollow, bears N. and S.

Subdivision of T 4 S R 20 E -Continued

Chains	Desc.
68.00	Bottom of hollow, 100 ft. below ridge, course S.30° E. Asc.
70.00	Top of spur, 30 ft. above hollow, bears N.20° W. and S.20° E. Desc.
74.50	Bottom of hollow, 40 ft. below spur, course S.20° E. Asc.
87.84	The cor. of secs. 29, 30, 31, and 32. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land; 87.84 chs.
	June 26, 1906: At this cor. I set off 23° 23' N., on the decl. arc; and at 6 h 2 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 26' N., which is the proper lat. nearly.
	N.0° 3' W., bet. secs. 29 and 30. Over mountainous land; through scattering sage brush. Asc.
2.00	Top of spur, 25 ft. above sec. cor., bears NW and SE. Desc.
12.50	Bottom of hollow, 50 ft. below ridge, course S.60° E. Asc.
27.00	Top of spur, 50 ft. above hollow, bears N.70° W. and S.70° E. Desc.
34.00	Bottom of hollow, 50 ft. below spur, course S.80° E. Asc.
39.00	Top of spur, 60 ft. above hollow, bears N.80° W. and S.80° E.

Subdivision of Bl. 4-S. R. 90^W. -Continued

Chains	Desc.
40.00	Set a sandstone, 18x11x4 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
47.00	Bottom of hollow, 50 ft. below spur, course S.80°E.
	Asc.
55.00	Top of spur, 75 ft. above hollow, bears N.75°W. and S.75°E.
	Desc.
58.00	Bottom of hollow, 60 ft. below spur, course S.80°E.
	Asc.
80.00	Set a quartzite stone, 18x11x7 ins., 12 ins. in the ground, for cor. of secs. 19, 20, 29, and 30, mkd. with 2 notches on S. and 5 notches on E. edges; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	✓ Mountainous land, 80.00 chs.
<hr/>	
	✓ N.89°57'E., on a random line bet. secs. 20 and 29.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.06	Intersect N. and S. line, 15 lks. N. of the cor. of secs. 20, 21, 28, and 29.
	Thence I run
	✓ N.89°57'W., on a true line bet. secs. 20 and 29.
	Over mountainous land; through dense sage brush.
	Asc. ||
1.00	Top of spur, 10 ft. above sec. cor., bears N.10°W. and S.10°E.
	Desc.
8.00	Enter scattering timber, bears N.10°W. and S.10°E.

Subdivision of T. 4 S., R. 20 E.-Continued.

Chains	
8.25	Bottom of hollow, 60 ft. below spur, course S. 16° E. Asc.
17.50	Top of ridge, 75 ft. above hollow, bears N. 20° W. and S. 20° E. Desc.
26.00	Bottom of hollow, 400 ft. below ridge, course S. Asc.
37.00	Top of ridge, 300 ft. above hollow, bears N. and S. Desc.
40.03	Set a quartzite stone, 18x10x6 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor.. mkd. $\frac{1}{2}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
55.00	Bottom of hollow, 300 ft. below ridge, course S. Asc.
69.00	Top of spur, 100 ft. above hollow, bears N. 20° W. and S. 20° E. Desc.
72.00	Bottom of hollow, 50 ft. below spur, course S. 20° E. Asc.
80.00	The cor. of secs. 18, 20, 28, and 30. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage, brush. Good grass for grazing. Mountainous land, 80.06 chs.
40.00	N. 89° 52' W., on a random line bet. secs. 18 and 30. Set temp. $\frac{1}{2}$ sec. cor.
87.86	Intersect W. bdy. of Tp., at the cor. of secs. 18, 24, 25, and 30, heretofore described. Thence I run

Subdivision of T 4 S: R 20 E. Continued

Chains	S.89°52'E., on a true line bet secs.19 and 30. Over mountainous land; through scattering timber and scattering undergrowth.
	Desc.
15.00	Bottom of hollow, 50 ft. below sec.cor., course S.20° E. Asc.
18.00	Top of spur, 30 ft. above hollow, bears N.20° W. and S.20° E. Desc.
24.00	Bottom of hollow, 40 ft. below spur, course S.10° E. Asc.
26.00	Top of spur, 30 ft. above hollow, bears N. and S. Desc.
31.00	Bottom of hollow, 50 ft. below spur, course S.25° E. Asc.
47.86	Set a quartzite stone, 16x6x6 ins., 11 ins. in the ground, for a sec.cor.. mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
55.00	Top of ridge, 50 ft. above hollow, bears N. and S. Desc.
67.00	Bottom of hollow, 40 ft. below ridge, course S.10° W. Asc.
79.00	Top of ridge, 250 ft. above hollow, bears N. and S. Desc.
87.86	The cor.of secs.19,20,29, and 30. Land, mountainous .. Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, 87.86 chs.

June 26, 1906.

Subdivision of T. 4 S., R. 20 E.-Continued.

Chains June 27, 1906: At 7 h. 3 m. a.m., l.m.t., I set off $40^{\circ} 27' N.$, on the lat. arc; $23^{\circ} 23' N.$, on the decl. arc; and determine a meridian, with the solar, at the cor. of secs. 19, 20, 29, and 30.

Thence I run

$N. 0^{\circ} 3' W.$, bet. secs. 19 and 20.

Over mountainous land; through scattering timber and scattering sage brush.

Desc.

14:00 Bottom of hollow, 50 ft. below sec. cor., course S. 25° E.

Asc.

19:00 Top of ridge, 150 ft. above hollow, bears N. 60° E. and S. 60° W.

Desc.

Leave scattering timber, bears N. 60° E. and S. 60° W.

24.00 Bottom of hollow, 100 ft. below ridge, course W.

Asc. abruptly.

37.75 Top of abrupt ascent, bears NW and SE.

40.00 Set a quartzite stone, 16x10x7 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{2}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

45.00 Enter timber, bears NE and SW.

54.00 Leave timber, bears N. 30° W. and S. 30° E.

61.00 Top of ridge, 200 ft. above hollow, bears N. 10° W. and S. 10° E.

Desc.

80.00 Set a quartzite cobble stone, 16x10x8 ins., 11 ins. in the ground, for cor. of secs. 17, 18, 19, and 20, mkd. with 3 notches on S. and 5 notches on E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, gravelly and clay; 3rd rate.

Timber, cedar.

Undergrowth, sage brush.

Good grass for grazing.

Subdivision of T.4-S., R.20-E.-Continued.

	Chains	Mountainous land, 80:00 chs.
		On a true line S. 89° 57' E., on a random line bet. secs. 17 and 20.
40.00		Set temp. $\frac{1}{4}$ sec. cor. in N. and S. line, 7 lks. S. of the cor. of secs. 16, 17, 20, and 21.
80.08		Intersect N. and S. line, 7 lks. S. of the cor. of secs. 16, 17, 20, and 21.
		Thence I run West, on a true line bet. secs. 17 and 20.
		Over mountainous land; through scattering cedar timber.
		Desc.
10.00		Bottom of hollow, 20 ft. below sec. cor., course S.
		Asc.
20.00		Top of ridge, 100 ft. above hollow, bears N. 10° E. and S. 10° W.
		Desc.
30.00		Bottom of hollow, 250 ft. below ridge, course S. 15° W.
		Asc.
33.00		Spur, 40 ft. above hollow, bears N. 30° W. and S. 30° E.
		Desc.
37.00		Hollow, 20 ft. below spur, course S. 20° E.
		Asc.
40.04		Set a sandstone, 18x12x5 ins., 12 in. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; from which
		A cedar, 6 ins. dia., bears N. 80° E., 54 lks. dist. mkd. $\frac{1}{4}$ S 17 B T.
		A cedar, 7 ins. dia., bears S. 53° E., 100 lks. dist. mkd. $\frac{1}{4}$ S 20 B T.
42.25		Sandstone, ledge, 15 ft. high, bears N. and SE. cor., 100 lks.
48.00		Top of spur, 300 ft. above hollow, bears N. and S. cor.
		Desc.
51.50		Bottom of hollow, 100 ft. below spur, course S. 20° E.
		Asc.

S. Division of 4 S R 20 E -Contin.

	Chains.
53.50	Top of abrupt ascent, bears N. and S. Enter dense sage brush, bears N. and S.
58.00	Top of ridge, 175 ft. above hollow, bears N. and S. Desc.
65.00	Bottom of hollow, 25 ft. below ridge, course S. Asc.
67.50	Top of spur, 20 ft. above hollow, bears N. and S. Desc.
70.00	Bottom of hollow, 30 ft below spur, course S. 30° E. Asc.
80.08	The cor. of secs. 17, 18, 19, and 20. Land, mountainous Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land or dand covered with dense undergrowth 80.08 chs.
	N. 89° 52' W., on a random line bet. secs. 18 and 19. 40.00 Set temp. $\frac{1}{4}$ sec. cor.
88.10	Intersect W. bdy. of Tp., 11 lks. N. of the cor. of secs. 13, 18, 19, and 24, heretofore described. Thence I run . S. 89° 57' E., on a true line bet. secs. 18 and 19. Over mountainous land; through scattering timber and dense sage brush. Desc.
7.75	Bottom of hollow, 100 ft. below sec. cor., course S. Asc.

Subdivision of T. 4 S R 20° E -Continued

Chains	
14.00	Top of spur, 250 ft. above hollow, bears N. and S. 20° E.
Desc.	
24.00	Bottom of hollow, 250 ft. below spur, course S. 20° E.
Asc.	
31.00	Ledge of sandstone, 30 ft. high, bears N. and S.
36.25	A conglomerate ledge, 25 ft. high, bears N. and S., extending 1.00 chs. S. and 2.00 chs. N. 20° E. 11.00 chs. N. 20° E.
37.25	Top of spur, 350 ft. above hollow, bears N. and S.
Desc.	
45.50	Bottom of hollow, 300 ft. below ridge, course S. 20° E.
Asc.	
48.10	Set a sandstone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
52.00	Top of ridge, 300 ft. above hollow, bears N. and S.
Desc.	
55.00	Begin abrupt descent, bears N. and S.
63.00	Bottom of hollow, 60 ft. below spur, course S. 20° E.
Asc.	
65.00	Top of spur, 150 ft. above hollow, bears N. and S.
Desc.	
73.00	Enter ledges, bears N. and S.
74.00	Bottom of hollow, 200 ft. below ridge, course S. 20° E. Leave ledges, bears N. and S.
Asc. abruptly.	
82.00	Leave timber, bears N. and S.
Top of abrupt ascent, bears N. and S.	
83.00	Top of ridge, 300 ft. above hollow, bears N. 10° W. and S. 10° E.
Desc.	
88.10	The cor. of secs. 17, 18, 19, and 20. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar.

Division of T. 4 S. 5 E. -Continued

Chains	Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 88.10 chs.
	June 27, 1906: At this cor. I set off $23^{\circ} 21' N.$, on the decl. arc. and at 0 h 3 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ} 28' N.$, which is the proper lat. nearly.
	N. C° 3' W., bet. secs. 17 and 18.
	Over mountainous land; through dense sage brush.
	Desc.
13.00	Enter scattering timber, bears N. 30° W. and S. 30° E.
16.00	Bottom of hollow, 10 ft. below sec. cor., course S. 30° E.
	Asc.
35.00	Enter heavy timber, bears E. and W.
40.00	Set a sandstone, 18x9x6 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. $\frac{1}{2}$ on W. face; from which A cedar, 6 ins. dia., bears N. 38° E. 20 lks. dist. mkd. $\frac{1}{2}$ S 17 B T. A cedar, 9 ins. dia., bears N. 34° W., 20 lks. dist. mkd. $\frac{1}{2}$ S 18 B T.
80.00	Set a quartzite stone, 16x8x5 ins., 11 ins. in the ground, for cor. of secs. 7, 8, 17, and 18, mkd. with 4 notches on S. and 5 notches on E. edges; from which A cedar, 11 ins. dia., bears N. 52° E., 30 lks. dist. mkd. T 4 S R 20 E S 8 B T. A cedar, 6 ins. dia., bears S. 65° E., 19 lks. dist. mkd. T 4 S R 20 E S 17 B T. A cedar, 11 ins. dia., bears S. 40° W., 39 lks. dist. mkd. T 4 S R 20 E S 18 B T. A cedar, 9 ins. dia., bears N. 56° W., 56 lks.

Sihdi i on L. m. 4 S. D'20 E. Containing

Chains	dist..mkd.T.4 S. R 20 E.S.7 B T.
	Land, mountainous
	Soil, gravelly; 3rd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous or heavily timbered land, or land covered with dense undergrowth, 80.00 chs.
<hr/>	
	East, on a random line bet. secs. 8 and 17.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.20	Intersect N. and S. line, 10 lks. N. of the cor. of secs. 8, 9, 16, and 17.
	Thence I run
	N. $89^{\circ} 56'$ W., on a true line bet. secs. 8 and 17.
	Over mountainous land; through heavy timber.
	Desc.
7.20	Bottom of hollow, 200 ft. below sec. cor., course S.
	Wood road, in bottom.
	Asc.
11.70	Top of spur, 350 ft. above hollow, bears N. 10° W. and S. 10° E.
	Desc.
20.70	Bottom of hollow, 300 ft. below spur, course S. 15° E.
	Asc.
23.20	Top of spur, 30 ft. above hollow, bears N. 20° W. and S. 20° E.
	Desc.
27.20	Bottom of hollow, 30 ft. below ridge, course S. 20° E.
	Leave heavy and enter scattering timber, bears N. 20° W. and S. 20° E.
	Asc.
35.70	Perpendicular sandstone and conglomerate ledge, 50 ft. high, bears N. and S.

Subdivision of T 4 S. R 20 E -Continued

Chains

40.10 Point for $\frac{1}{4}$ sec.cor. falls on stationary sandstone ledge, 6x3x3 ft. above ground, on which I mark a cross at the exact cor. point for $\frac{1}{4}$ sec.cor., and $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

43.20 Top of ridge, 350 ft. above hollow, bears N. and S.

Desc.

44.20 Enter heavy and leave scattering timber, bears N. and S.

54.20 Bottom of hollow, 150 ft. below spur, course S.

Asc..

61.20 Top of spur, 60 ft. above sec.cor., bears N. and S.

Desc.

80.20 The cor. of secs. 7, 8, 17, and 18.

Land, mountainous.

Soil, gravelly and rocky; 3rd and 4th rate.

Timber, cedar.

Good grass for grazing.

Mountainous or heavily timbered land, 80.20 chs.

N. $89^{\circ} 57'$ W., on a random line bet. secs. 7 and 18.

40.00 Set temp. $\frac{1}{4}$ sec.cor.

88.20 Intersect W.bdy. of Tp., 18. lks.S. of the cor. of secs. 7, 12, 13, and 18, heretofore described.

Thence I run

S. $89^{\circ} 49'$ E., on a true line bet. secs. 7 and 18.

Over mountainous land; through heavy timber.

Asc.

6.20 Top of ridge, 100 ft. above sec.cor., bears N. and S.

Desc.

29.00 Bottom of hollow, 200 ft. below ridge, course S.

Asc.

41.95 Top of ridge, 400 ft. above hollow, bears N. 20° W. and S. 20° E.

Subdivision of T 4 S R 20 E -Continued

Chains	Desc.
48.20	Set a sandstone, 14x9x6 ins., 9. ins. in the ground, for sec. cor.. mkd. $\frac{1}{4}$ on N. face; from which A cedar, 8 ins. dia., bears N. $79^{\circ} 30' W.$, 81 lks. dist.. mkd. $\frac{1}{4}$ S 7 B.T. A cedar, 10 ins. dia., bears S. $83^{\circ} 30' W.$, 65. lks. dist.. mkd. $\frac{1}{4}$ S 18 B.T.
53.20	Bottom of hollow, 400 ft. below ridge, course S. $30^{\circ} E.$ Asc.
56.20	Top of spur, 20 ft. above hollow, bears N. $26^{\circ} W.$ and S. $26^{\circ} E.$ Desc.
62.20	Bottom of hollow, 40 ft. below spur, course S. Asc.
66.20	Top of spur, 20 ft. above hollow, bears N. and S. Desc.
70.20	Bottom of hollow, 30 ft. below spur, course S. Asc.
82.20	Top of spur, 30 ft. above hollow, bears N. and S. Desc.
85.20	Bottom of hollow, 20 ft. below sec.cor., course S. Asc.
88.20	The cor. of secs. 7, 8, 17, and 18. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Good grass for grazing. Mountainous or heavily timbered land, 88.20 chs.

June 27, 1906.

June 28, 1906: At 7h 53 m a.m., 1.m.t., I set off $40^{\circ} 29' N.$, on

Subdivision of T. 4 S. - R. 20 E. -Continued

Chains	the lat.arc; 23° 20' N., on the decl.arc; and determine a meridian, with the solar, at the cor. of secs. 7, 8, 17, and 18.
	Thence I run
	" N. 0° 3' W., bet. secs. 7 and 8.
	Over mountainous land; through heavy timber.
	Desc.
10.00	Bottom of hollow, 80 ft. below sec.cor., course S. 30° W.
	Asc.
32.00	Top of spur, 200 ft. above hollow, bears NW and SE.
	Desc.
35.00	Bottom of hollow, 25 ft. below spur, course SE.
	Asc.
40.00	Top of spur, 150 ft. above hollow, bears NW and SE. Set a sandstone, 16x8x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor., mkd. $\frac{1}{4}$ on W. face; from which
	A cedar, 7 ins. dia., bears E., 27 lks.
	dist. mkd. $\frac{1}{4}$ S 8 B T.
	A cedar, 9 ins. dia., bears S. 80° W., 17 lks.
	dist. mkd. $\frac{1}{4}$ S 7 B T.
	Desc.
44.50	Bottom of hollow, 50 ft. below spur, course S. 60° E.
	Asc.
54.00	Top of spur, 60 ft. above hollow, bears N. 60° W. and S. 60° E.
	Desc.
58.00	Bottom of hollow, 40 ft. below spur, course S. 60° E.
	Asc.
73.80	Top of ridge, 250 ft. above hollow, bears N. 75° W. and S. 75° E.
	Desc.
79.00	Bottom of hollow, 40 ft. below spur, course S. 75° E.
	Asc.
80.00	Set a quartzite stone, 16x8x6 ins., 11 ins. in the ground, for cor. of secs. 5, 6, 7, and 8, mkd. with 5 notches on S., and E. edges; from which

Subdivision of T.4 S.R.20 E.-Continued.

- Chains A cedar, 12 ins. dia., bears N. 29° E., 29 lks. dist.
 mkd. T 4 S R 20 E S 5 B T.
- A cedar, 9 ins. dia., bears S. 81° E., 32 lks.
 dist. mkd. T 4 S R 20 E S 8 B T.
- A cedar, 12 ins. dia., bears S. 86° W., 31 lks.
 dist. mkd. T 4 S R 20 E S 7 B T.
- A cedar, 24 ins. dia., bears N. 13° W., 30 lks.
 dist. mkd. T 4 S R 20 E S 6 B T.
- Land, mountainous.
- Soil, gravelly and rocky; 3rd and 4th rate.
- Timber, cedar.
- Good grass.
- Mountainous or heavily timbered land, 80.00 chs.
-
- 40.00 S. 89° 56' E., on a random line bet. secs. 5 and 8.
 Set temp. $\frac{1}{4}$ sec. cor.
- 80.22 Intersect N. and S. line, at the cor. of secs. 4, 5, 8, and 9.
 Thence I run
 N. 89° 56' W., on a true line bet. secs. 5 and 8.
 Over mountainous land; through heavy timber.
 Desc.
- .75 Bottom of hollow, 15 ft. below sec. cor., course S.
 Asc.
- 5.00 Top of spur, 75 ft. above hollow, bears N. 10° W. and S. 10° E.
 Wood road on top or ridge.
 Desc.
- 14.00 Bottom of hollow, 40 ft. below spur, course S.
 Asc.
- 25.00 Top of spur, 150 ft. above hollow, bears N. 20° W. and S. 20° E.
 Desc.
- 29.00 Bottom of hollow, 100 ft. below spur, course S. 20° E.
 Asc.

Subdivision of T. 4 S., R. 20 E.-Continued.

Chains

38.00 Top of ridge, 150 ft. above hollow, bears N. 15° W. and S. 15° E.

Desc.

40.11 Set a sandstone, 16x12x8 ins., 11 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. $\frac{1}{4}$ on N. face; from which

A cedar, 8 ins. dia., bears N. 16° E., 88 lks.
dist. mkd. $\frac{1}{4}$ S. 5 B. T.

A cedar, 9 ins. dia., bears S. 6° E., 50 lks.
dist. mkd. $\frac{1}{4}$ S. 8 B. T. .

48.00 Bottom of hollow, 40 ft. below ridge, course S.

Asc.

57.00 Top of spur, 100 ft. above hollow, bears N. and S.

Desc.

72.00 Bottom of hollow, 200 ft. below spur, course S. Asc.

77.00 Spur, 50 ft. above hollow, bears N. 80° W. and S. 80° E. Desc.

80.22 The cor. of secs. 5, 6, 7, and 8.

Land, mountainous .

Soil, gravelly and rocky; 2nd and 4th rate.

Timber, cedar.

Good grass for grazing.

Mountainous or heavily timbered land, 80.22 chs.

June 28, 1906: At the noon hour the sky is overcast and solar observations are impossible.

N. 89° 49' W., on a random line bet. secs. 6 and 7.

40.00 Set. temp. $\frac{1}{4}$ sec. cor.

88.08 Intersect W. bdy. of Tp., 16 lks. N. of the cor. of secs. 1, 6, 7, and 12, heretofore described.

Thence 1 run

S. 89° 56' E., on a true line bet. secs. 6 and 7.

Overmountainous land, through heavy timber .

Subdivision of T 4 S R 20 E -Continued

Chains	Desc.
1.50	Bottom of hollow, 100 ft. below sec.cor. course S.20°W. Asc.
22.00	Leave timber, bears N.20°E. and S.20°W.
38.00	Top of ridge, 700 ft. above hollow, bears N.20°E. and S.20°W. Enter heavy timber, bears N.20°E. and S.20°W.
	Desc.
48.08	Set aquartzite stone, 18x10x5 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. $\frac{1}{4}$ on N. face; from which A cedar, 8 ins. dia., bears N.32°E., 65 lks. dist.. mkd. $\frac{1}{4}$ S 6 B T. A cedar, 10 ins. dia., bears S.85°W., 53 lks. dist.. mkd. $\frac{1}{4}$ S 7 B T.
68.00	Begin steep descent, bears NW and SE.
88.08	The cor.ofsecs.5,6,7, and 8. Point, 600 ft. below ridge. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Good grass for grazing. Mountainous or heavily timbered land, 88.08 chs.
	Note: For reasons already explained I run N.0°3'W., on true line bet. secs.5 and 6. Over mountainous land ;through heavy timber Asc.. .50 Top of spur, bears N.75°W. and S.75°E. Desc.. 5.25 Bottom of hollow, 20 ft. below spur, course S.75°E. Asc..

Subdivision of T. 4 S., R. 20 E.-Continued.

Chains	
6.50	Top of spur, 25 ft. above hollow, bears N. 75° W. and S. 75° E. Desc.
8.00	Bottom of hollow, 30 ft. below spur, course E. Asc.
13.00	Top of spur, 40 ft. above hollow, bears E. and W. Desc.
20.00	Bottom of canon, 150 ft. below spur, course S. 20° E. Asc. along bottom of hollow.
26.50	A small spring bears E. 25 lks. dist.
27.50	Leave canon bottom, course S. course above this point is S. 25° E. Asc.
40.00	Set a quartzite stone, 18x9x5 ins., in mound of stone, on solid rock, for $\frac{1}{2}$ sec. cor. mkd. $\frac{1}{4}$ on W. face; from which A cedar, 7 ins. dia., bears S. 75° E., 24 lks. dist. mkd. $\frac{1}{4}$ S 5 B T. A cedar, 14 ins. dia., bears N. 57° W., 53 lks. dist. mkd. $\frac{1}{4}$ S 6 B T.
71.00	Leave timber, bears N. 60° W. and S. 60° E.
72.00	Top of ridge, 700 ft. above canon, bears N. 60° W. and S. 60° E. Desc.
82.10	Intersect N. bdy. of Tp., 7.40 chs. East, of the cor. of secs. 5, 6, 31, and 32, heretofore described. Set a quartzite stone, 18x9x6 ins., $\frac{1}{2}$ ins. in the ground, for closing cor. of secs. 5 and 6, mkd. with C C on S., and 5 grooves on E. and 1 groove on W. faces; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor. Note: I destroy all marks on the cor. of secs. 5, 6, 31, and 32, which pertain to secs. 5 and 6. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar.

Subdivision of T.4 E., R.20 E.-Continued.

Chains	Good grass for grazing. ✓ Mountainous or heavily timbered land, 82.10 chs.
--------	--

June 28, 1906.

GENERAL DESCRIPTION.

This township is practically all mountainous and the soil ranges from clay loam to rocky. The soil in the southern and eastern parts of the township is generally clay loam; 2nd rate. In the western and northern parts of the townships the soil is generally gravelly; 3rd rate; except on some rocky ridges where the soil is 4th rate.

With the exception of the southern and eastern tier of sections the entire township is covered with a heavy growth of cedar timber (mostly scrubby and unfit for any use except fire wood). Where there is no timber there is generally a dense growth of sage brush. There is scarcely enough water in the township for grazing purposes.

George Grey lives on his coal claim in sec. 3; there are no other settlers in the township.

There ^{are} producing coal mines in secs. 2, 5, and 11; In my opinion there is sufficient coal in these sections to class them as coal lands.

Jos. E. Rich and C. C. Rich have improvements on their coal claims not seen from line.

The township is well adapted for grazing purposes.

John R. Stewart
U.S. Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
working the lines and corners described in the foregoing field notes of the survey of
wing the respective capacities in which they acted:

....., *Chainman.*
or final affidavits see book "Z¹⁵" T. 12 N., R. 20 E., *Chainman.*
....., *Moundman.*
....., *Moundman.*
....., *Axman.*
....., *Axman.*
....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
the parts or portions of the

..... of the

..... meridian, of which are represented
the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for

or final affidavits see book "Z¹⁵" T. 2 N., R. 20 E., *Chainman.*
....., *Chainman.*
....., *Moundman.*
....., *Moundman.*
....., *Axman.*
....., *Axman.*
....., *Flagman.*

scribed and sworn to before me this }
day of , 190 }

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8 SEAL 8
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, bearing date of _____, United States Surveyor General for _____, day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavits see book "Z" T.2 N. R. 20 E.

.....of the
meridian, in the of which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this day of 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 190_____,

The foregoing field notes of the survey of the Subdivisional lines of Township No. 4 South, Range No. 20 East of the Salt Lake Base and Meridian, Utah

executed by Scott P. Stewart and John R. Stewart
their _____ under his contract No. 295 dated April 30, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Kell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office

United States Surveyor General

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4-679.

D.
BOOK A-335

FILED
SEP 10 1908

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

OF

Township No. 3 South, Range No. 40 East,

of the SALT LAKE BASE AND Meridian,

STATE OF UTAH

AS SURVEYED BY

Scott P. Stewart and John R. Stewart, United States Deputy Surveyors

Under ~~the~~ Contract No. 265, dated April 26, 1906. \$250

Survey commenced June 26, 1906. \$200

Survey completed July 2, 1906. \$200

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Aug 6 1906
A. H. [unclear]
243

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher Chainman

Leo A. Snow Chainman

Paul Ashworth Moundman

Quinby Stewart Moundman

Alden Oscar Gledhill Axman

John W. Pickering Axman

John R. Llewellyn Flagman

For preliminary affidavits see book "C" Tp. 4 S., R. 20 E.

BOOK A-335

INDEX DIAGRAM.

Township 5 South, Range 20 East.

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6	5				
31	4	82	83	84	85
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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of , Chai.

Subscribed and sworn to before me this }
day of , 190 }



We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of , Moun.

Subscribed and sworn to before me this }
day of , 190 }



We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the survey of , A.

Subscribed and sworn to before me this }
day of , 190 }



I, , do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of , Fla.

Subscribed and sworn to before me this }
day of , 190 }



division of 3 S R 50 E

Survey commenced June 29, 1906, and executed with a Young and Sons light mountain transit, No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, June 1, 1906.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by observation on Polaris, I proceed as follows:

At the cor. of secs. 33 and 34 on S.bdy.of Tp., heretofore described, latitude $40^{\circ} 30' 25''$ N., longitude $109^{\circ} 41' 45''$ W., I set off $40^{\circ} 30' N.$ on the lat.arc; $23^{\circ} 16' N.$ on the decl.arc; and at 4h. 3 m. p.m.l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground 5.00 chs. N. of the cor.

June 29, 1906.

June 30, 1906, at 1h. 0m.a.m.l.m.t.I observe Polaris at eastern elongation in accordance with the Manual of Instructions, and mark a point in the line thus determined on a peg driven in the ground, 5.00 chs. N. of the cor.

At 6h.30m.a.m.l.m.t.I lay off the azimuth of Polaris $1^{\circ} 34'$ to the west, and mark the meridian thus determined by cutting a small groove in the stone al-

Substitution of T. M. S. 20 F.

Chains. ready set 5 chs. N. of the cor.; this mark falls 0.38 ins. east of the meridian determined with the solar At 7h.3m.a.m.l.m.t.I set off $40^{\circ} 30' N.$ on the lat.arc; $23^{\circ} 14' N.$ on the decl.arc; a random mark on the meridian determined with the solar by a cross on the stone already set 5 chs. N. of the cor.; this mark falls 0.36 ins. east of the meridian established by Polaris observation.

The solar apparatus by p.m. and observations defines position for meridians, respectively about $0^{\circ} 20''$ west and $0^{\circ} 19''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h.30m.a.m. is N. $16^{\circ} 17' W.$, the angle thus determined gives the mag.decl. $16^{\circ} 17' E.$

From the cor.of secs.33 and 34, on S.bdy.of the Tp., h
the Net of Fort described, I run
N. $0^{\circ} 2' W.$ on a random line bet.secs.33 and 34,
2.04 Intersect south bdy. of Fort Thomburg Military Reser-
vation 201 lks.S. $71^{\circ} 26' E.$ of the closing cor.of secs.
33 and 34, set from the north, and described in notes
of the retracement of the west bdy.of the reserva-
tion; the falling being out of limits, I
Set a quartize stone 18x12x6 ins., 12 ins.in the
ground for closing cor.of frac,l'secs.33 and 34,
mkd. C C on S., F T T I M R on N., with 3 grooves on E.
face; from which

A cedar 6 ins.dia.bears S. $49^{\circ} E.$ 25 lks.
dist., mkd.T 3 S.R. 20 E S 34 B T

A cedar 14 ins.dia.bears S. $27^{\circ} W.$ 25 lks.
dist., mkd.T 3 S.R. 20 E S 33 B T

-2-

Subdivision of T. 3 S., R. 20 E.

Chains. From this cor. the 12th mile cor. on the bdy., which is described in the notes of the retracement of the W. bdy. of the reservation, bears as follows:

N.71° 26'W.4.15 chs. to mile stone No.12.

Thence I run

S.0° 2'E. on a true line bet. secs. 33 and 34.

Over mountainous land; through heavy cedar timber.

Descend.

2.04

The cor. of secs. 33 and 34.

Land mountainous.

Soil gravelly; 3d rate..

Timber cedar. Good grass for grazing.

Mountaintous or heavily timbered land 2.04 chs.

From the cor. of secs. 32 and 33 on S. bdy. of Tp. heretofore described.

Note: Knowing from connections already made that this line will not intersect the Fort Thornburg Military Reservation within limits of the old closing cor. I run.

N.0° 3'W. on true line bet. secs. 32 and 33, over mountaintous land; through scattering cedar timber and dense sagebrush.

Ascend.

14.00

Top of spur, 800 ft. above sec. cor., bears E. and W.

Descend.

29.00

Intersect Fort Thornburg Military Reservation bdy. 270 lks. S.71° 26'E. from closing cor. set from north, and as described in notes of the retracement of the W. bdy. of the reservation,

Set a quartzite stone 20x8x6 ins., 15 ins. in the ground for closing cor. of frac'l secs. 32 and 33, mkd. cC C on S., F T M R on N., with 4 grooves on E. faces; and

Chains.

raise Subdivision of Twp. 3.S.W.R 2020.E.

Chains.

raise a mound of stone, 2 ft. base, 1 1/2 ft. high S. of cor.

From this cor. the 11th mile cor. on the boundary of Fort Thornburg Military Reservation, which is described in notes of the retracement of the west bdy. of the reservation, bears as follows:

N.71° 26'W. 21 lks. to mile cor. No. 11.

Land mountainous.

Soil gravelly; 3rd rate.

Timber cedar.

Undergrowth sagebrush.

Good grass for grazing.

Mountainous land or land covered with dense undergrowth
29.00 chs.

From the cor. of secs. 31 and 32 on S. bdy. of Tp., heretofore described, I run

N.0° 4'W. bet. secs. 31 and 32,

Over mountainous land; through scattering undergrowth.

Descend.

4.50

Bottom of hollow, 200 ft. below sec.cor., course S.W.

Enter heavy cedar timber, bears NE. and SW.

Ascend.

13.00

Leave timber bears E. and W.

27.00

Top of ridge, 1000 ft. above hollow, bears N.30°E. and S.30°W.

Descend.

40.00

Set a quartzite stone 14x9x6 ins., 9 ins. in the ground,
for 1/4 sec.cor., mkd. 1/4 on W. face; and raise a mound
of stone 2 ft. base, 1 1/2 ft. high W. of cor.

44.50

Bottom of hollow, 500 ft. below ridge, course S.30°W.

Ascend.

Subdivision of T. 3 S., R. 20 E.

Chains. 65.00	Top of ridge, 600 ft. above hollow, bears N.30° E. and S.30° W.
	Descend.
69.50	Bottom of hollow, 60 ft. below ridge, course SW.
	Ascend.
79.25	Top of ridge, 100 ft. above hollow, bears E. and SW.
	Descend.
80.00	Set a quartzite stone 16x10x7 ins., 11 ins. in the ground for cor. of secs. 29, 30, 31, and 32, marked with 1 notch on S. and 5 notches on E. edge; and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
	Land mountainous.
	Soil gravelly 3d rate.
	Timber cedar.
	Undergrowth sagebrush.
	Good grass for grazing.
	Mountainous or heavily timbered land 80.00 chs.
	June 30, 1906; At this cor. I set off 23° 15' N. on the decl. arc; and at 0 h. 3 m.p.m.l.m.t. I observe the sun on the meridian; the resulting lat. is 40° 31' N. which is the proper lat. nearly.

	For reasons already explained I run
	East on a true line bet. secs. 29 and 32,
	Over mountainous land; through dense sagebrush.
	Ascend.
7.00	Top of ridge, 50 ft. above sec. ^{cor} , bears N.30° E. and S.30° W.
	Descend.
30.00	Bottom of hollow; 300 ft. below ridge, course S.10° E.
	Ascend.
40.00	Set a sandstone 16x8x6 ins., 11 ins. in the ground, for

Subdivision off T. T3 S. S. T.R. 20 E.

- Chains. 1/4 sec.cor., mkd. 1/4 on N. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high N. of cor.
- 43.00 Top of ridge, 300 ft. above hollow, bears N. 5° W. and S. 5° E.
- Descend.
- 53.65 Intersect West bdy. Fort Thornburg Military Reservation 41 lks. S. 4° 45' E. of closing cor. of secs. 29 and 32. set from east, and which is a sandstone 5 x 9 x 6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
- Set a sandstone 16x9x8 ins., 11 ins. in the ground, for closing cor. of fract. secs. 29 and 32, marked C C on W. F T M R on E., 1 groove on S. and 4 grooves on E. faces; and raise a mound of stone a 2 ft. base 1 1/2 ft. high W. of cor.
- From this corner the 10th mile cor. on the Reservation bdy., which is a sand stone 6x12x10 ins. above ground, firmly set and marked and witnessed as described by the surveyor general, bears as follows:
- N. 4° 45' W. 12.72 chs. to mile stone No. 10
- Land mountainous.
- Soil gravelly, moderate.
- No timber.
- Undergrowth sagebrush.
- Good grass for grazing.
- Mountainous land, or land covered with dense under-growth 53.65 chs.
- Note: Knowing from previous connections that the line bet. secs. 30 and 31 will not intersect the west bdy. of the Tp. within limits, I run
- West on a true line bet. secs. 30 and 31,

Subdivision of T. 3 S., R. 20 E.

- Chains. Over mountainous land; through sagebrush.
 Descend abruptly.
- 40.00 Set a hard sandstone 16x13x6 ins., 11 ins.in the ground
 for 1/4 sec.cor., mkd.1/4 on N.face; and raise a mound
 of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high N.of cor.
- 55.00 Enter heavy timber bears N. and S.
- 60.00 Bottom of hollow, 1500 ft.below sec.cor., course N.70°
 W. Ascend.
- 80.50 Intersect W. bdy. of Tp. 3.99 chs.N.0° 15'W.of the cor.
 of secs.25, 30,31, and 36, which is a sandstone 6x12
 x10 ins.above ground, firmly.set, and marked and wit-
 nessed as described by the surveyor general.
 Set a limestone 18x6x6 ins., 12ins.in the ground, for
 closing cor.of secs.30 and.31, mked.C C on E. with 5
 grooves on N. and 1.groove on S.faces; from which
 A cedar 8 ins.dia.bears N.67° E. 48 lks. dist.
 mkd.T 3 S R 20 E S \$0 B T
 A cedar 5 ins.dia.bears S.15° E. 80 lks.dist.
 mkd. T 3 S R 20 E S 31 B T

Note:

- I destroy all marks on the.cor.of secs.25,30,31
 and 36 which pertain to secs.30 and 31.
 Land mountainous.
 Soil gravelly,3d.rate.
 Timber cedar.
 Undergrowth sagebrush.
 Good grass for grazing.
 Mountainous or heavily timbered land; or land covered
 with dense undergrowth 80.50 chs.

June 30, 1906.

July 1, 1906: AT 7h.3m.a.m.l.m.t.I set off 40° 31'N.

Subdivision of T 3 S R 20 E

Chains.	on the lat.arc; 23° 11'N.on the decl.arc; and determine a meridian with the solar, at the cor.of secs. 29,30,31, and 32... Thence I run N. 41'W. bet. secs. 29 and 30 N.O° 4'W.bet.secs.29 and 30.
9.50	Over mountainous land, through dense sagebrush. Descend.
35.00	Top of ridge, 50 ft. below sec.cor., bears E. and W. Desc.
	Bottom of hollow, 1000 ft. below sec.cor., course W. Asc.
	Enter scattering cedar timber, bears E. and W.
40.00	Set a quartzite stone 14x8x5.ins., 9 ins.in the ground for 1/4 sec.cor., mkd. 1/4 on W.face; and raise a mound of stone 2 ft.base, 1 1/2 ft.high W.of cor.
48.00	Top of ridge 500ft.above hollow, bears E. and W. Desc. Leave timber bears E. and W.
55.00	Bottom of hollow, 400ft.below ridge, course W.
59.00	Top of spur, 100 ft.above hollow, bears E. and W. Desc.
80.00	Set a quartzite stone 18x7x6ins., 12ins.in the ground for cor.of secs.19,20,29, and 30 mkd. with 2 notches on S. and 5 notches on E.edges; and raise a mound of stone 2 ft.base, 1 1/2 ft.high W.of cor. Land mountainous. Soil gravelly, 3d rate. Timber cedar; undergrowth sagebrush. Good grass for grazing. Mountainous land, or land covered with dense-undert growth 80.00 chs.
	Note: For reasons already explained I run Off on East on a true line bet.secs.20 and 29S; ascend Over mountainous land; through dense sagebrush; ascend- ing gradually.
16.00	Begin abrupt ascent bears N. and S.
40.00	Set a quartzite stone 14x8x6ins., 139ins.in the ground

Subdivision of T. 35 S. R. 20 E.

- Chains. for 1/4 sec.cor., mkd. 1/4 on N. face; and raise a mound of popfstone 2 ft. base, 1 1/2 ft. high N. of cor.
- 46.00 Top of ridge, 1200ft. above sec.cor., bears N. and S. Descend.
- 47.01 Intersect the west bdy. of Fort Thornburg Military Reservation 44 lks. N. 4° 45' W. of closing cor. of secs. 20 and 29, set from east, which is a sandstone 5x9x6 ins. above ground, firmly set and marked and witnessed as described by the surveyor general.
- Set a quartzite stone 16x8x5 ins., 11 ins. in the ground for closing cor. of fract. secs. 20 and 29, mkd. C C on W., F T M R on E., with 2 grooves on S., and 4 grooves on E. faces; and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
- From this cor. the 9th mile cor. on the reservation bdy. which is a sandstone 6x16x8 ins. above ground, firmly set and marked and witnessed as described by the surveyor general, bears as follows:
- N. 4° 45' W. 12.22 chs to mile stone No. 9.
- Land mountainous.
- Soil gravelly, 5d rate.
- No timber.
- Undergrowth sagebrush.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth
- 47.01 chs.
- July 1, 1906; At this cor. I set off 23° 09' N. on the decl. arc; and at 0h 33.m.p.m.l.m.t. I observe the sun on the meridian; the resulting lat. is 40° 32' N., which is the proper lat. nearly.

Note: For reasons already explained I run West on a true line Betw secs. 19 and 30,

Subdivision of T. 3 S., R. 20 E.

Chains.	Descend, through dense sagebrush.
30.00	Bottom of hollow, 200 ft. below sec.cor., course N. 70° W. Ascend.
35.00	Top of ridge, 200 ft. above hollow, bears N. 70° W. and S. 70° E. Descend.
40.00	Set a quartzite stone 14x10x8 ins., 9 ins. in the ground, for 1/4 sec.cor., mkd. 1/4 on N. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
50.00	Bottom of hollow, 200 ft. below ridge, course S. ascend.
55.00	Top of spur, 100 ft. above hollow, bears N. and S. Desc.
65.00	Bottom of hollow, 100 ft. below spur, course S. Ascend.
73.00	Top of knoll, 100 ft. above hollow. Descend.
81.04	Intersect W. bdy. of Tp. 34 S 30 chs. N. 0° 13' W. of the cor. of secs. 19, 24, 25, and 30, which is a sandstone 6x10x10 ins. above ground, firmly set and mkd. and witnessed as described by the surveyor general. Set a sandstone 16x10x8 ins., 11 ins. the ground, for closing cor. of secs 19 and 30, mkd. with C C on E., 4 grooves on N. and 2 grooves on S. faces: from which A cedar 4 ins. dia. bears N. 60° E. 6 lks. dist. mkd. T 3 S R 20 E S 19 BT A cedar 4 ins. dia. bears S. 25° E. 30 lks. dist. mkd. T 3 S R 20 E S 30 B T
	Note: I destroy all marks on the cor. of secs. 19, 24, 25 and 30, which pertain to secs. 19 and 30.
	Land mountainous.
	Soil gravelly, 3d rate.
	No timber; undergrowth sagebrush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth
81.04.	July 1, 1906.
	July 2, 1906; At 7h. 4m. a.m., l.m.t. I set off 40° 32' N. on the lat. arc; 23° 07' N. on the decl. arc; and determine

Subdivision of T.3 S. R.20 E.-Continued.

Chains 1ca, meridian, with the solar at the cor. of secs. 19, 20, 29
and 30. Thence I run, N. 0° 4' W., on a true line bet. secs. 19 and 20.
Over mountainous land; through dense sage brush.

Desc.

2.50 Bottom of hollow, 50 ft. below sec. cor.; course W.
Asc.

6.15 Top of ridge, 100 ft. above hollow, bears E. and W. Desc.

32.00 Bottom of hollow, 150 ft. below ridge , course W. Asc.

40.00 Set a quartzite stone, 14x10x9 ins., 9 ins. in the ground,
for $\frac{1}{2}$ sec. cor., mkd. $\frac{1}{2}$ on W. face; and raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

46.00 Top of spur, 100 ft. above hollow, bears E. and W.
Desc.

70.00 Bottom of hollow, 75 ft. below spur, course W.
Asc.

78.70 Intersect E. and W. line, 2.00 chs. N. 89° 52' E., of the cor.
of secs. 17, 18, 19, and 20, which is a quartzite stone,
5x10x7 ins., above ground, firmly set, and mkd. and witnessed
as described by the surveyor general.
Set a quartzite stone, 20x8x6 ins., 15 ins. in the ground, for
closing cor. of secs. 19 and 20, mkd. with C C on S., with
5 grooves on E. and 3 Grooves on S. faces; and raise a mound
of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor.

Note: I destroy all marks on the cor. of secs. 17, 18, 19,
and 20, which pertain to secs. 19 and 20.

Land, mountainous.

Soil, gravelly; 3rd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
78.70 chs.

Subdivision of T. 3 S., R. 20 E. Continued.

Chains

- From the cor. of secs. 16, 17, 20, and 21, which is a quartzite stone, 6x10x8 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- For reasons already explained I run S. 0° 3' E., on a true line bet. secs. 20 and 21.
- Over mountainous land; through dense undergrowth.
- Asc. abruptly.
- 9.70 Top of abrupt ascent, bears E. and W.
- Ascend more gradually.
- 39.75 Top of ridge, 650 ft. above sec. cor., bears E. and W.
- Desc.
- 40.00 Set a quartzite stone, 24x14x7 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
- 57.00 Bottom of hollow, 200 ft. below ridge, course SE.
- Asc.
- 63.77 Intersect the North bdy. of the Fort Thornburg Military Reservation, 90 lks. N. 84° 39' W., of the closing cor. of secs. 20 and 21, set from the south, which is a sandstone, 5x12x10 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- Set a quartzite stone, 14x12x6 ins., 9. ins. in the ground, for closing cor. of fractl. secs. 20 and 21, mkd. C-C on N., F.T.M.R. on S., with 4 grooves on E. and 2 grooves on S. faces; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
- From this cor. the $\frac{1}{2}$ mile cor. bet. the 8th and 9th mile cors., which is a sandstone, 8x14x10 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears as follows:
- S. 84° 39' E., 2.50 chs. $\frac{1}{2}$ mile stone bet. the 8th and 9th mile cors.
- Land, mountainous.
- Soil, clay loam and rocky; 2nd and 4th rate,

Subdivision of T. 3 S., R. 20 E. Continued.

Chains	No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 65.77 chs. July 2, 1906: At the noon hour the sky is overcast and solar observations are impossible.
	From the cor. of secs. 15, 16, 21, and 22, which is sandstone, 6x10x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
	For reasons already explained
	I run
	S.0°2' E., on a true line bet. secs. 21 and 22.
	Over mountainous land; through dense sage brush.
	Asc. mountain.
10.25	Leave undergrowth and enter heavy timber, bears E. and W.
40.00	Set a quartzite stone, 14x9x8 ins., 10 ins. in the ground, for a sec. cor., mkd. $\frac{1}{4}$ on W. face; from which A cedar, 5 ins. dia., bears N. 72° E., 31 lks. dist. mkd. $\frac{1}{4}$ S 22° B T. A cedar, 5 ins. dia., bears N. 22° W., 29 lks. dist. mkd. $\frac{1}{4}$ S 21° B T.
42.00	Top of ridge, 800 ft. above sec. cor., bears E. and W. Desc.
44.75	Bottom of hollow, 300 ft. below ridge, course E. Asc.
54.25	Top of ridge, 300 ft. above hollow, bears E. and W. Desc.
56.50	Bottom of hollow, 100 ft. below ridge, course E. Asc.
58.25	Top of spur, 100 ft. above hollow, bears E. and W.

Subdivision of T 3 S: R 20 E.-Continued

Chains	Desc.
61.00	Bottom of hollow, 300 ft. below spur, course E.
	Asc.
69.00	Top of ridge, 400 ft. above hollow, bears E and W.
	Desc.
71.46	Intersect North bdy. of Fort Thornburg Military Reservation, 79 lks. N. 84° 39' W., of the closing cor. of secs. 21 and 22 Set from the south, which is a sandstone, 7x8x8 ins., above ground, firmly set, and mkd. and witnessed as de- scribed by the surveyor general. Set a sandstone, 14x12x4 ins., 9 ins. in the ground, for closing cor. of fractl. secs. 21 and 22., mkd. C C on N., with 3 grooves on E. and 2 grooves on S. faces, and F.T.M.R. on S. faces; from which A cedar, 8 ins. dia., bears N. 36° E., 29 lks. dist.. mkd. T 3 S R 20 E S 22 B T. A cedar, 10 ins. dia., bears N. 57° W., 19 lks. dist.. mkd. T 3 S R 20 E S 21 B T. From this cor. the $\frac{1}{2}$ mile cor. bet. the 7th and 8th mile cors. on the reservation bdy., which is a stationary boulder, 2x2x1 $\frac{1}{2}$ ft. above ground, mkd. and witnessed as described by the surveyor general, bears as follows: S. 84° 39' E., 240 chs. dist., to the $\frac{1}{2}$ mile stone bet. the 7th and 8th mile cors. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth, 71.46 chs. July 2, 1906.

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Subdivision of T. 3 S., R. 20 E.

General Description.

This fractional township is all mountainous and rough. The soil is generally gravelly; 3rd rate.

There is practically no timber in the township. There is a dense growth of sagebrush nearly all over the township.

There is a small spring in sec.33, which is the only water in the township.

There is an abundance of good grass all over the township, affording excellent grazing, especially for sheep.

There are no settlers in the township. There is no mineral in the township.

I found no trace of Marvin Hall's D.E.No.4924, NW $\frac{1}{4}$ of NW $\frac{1}{4}$ sec.31.

John R. Stewart
U.S. Deputy Surveyor.

July 2, 1906.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 taking the lines and corners described in the foregoing field notes of the survey of ...

 giving the respective capacities in which they acted:

For final affidavits see book "Z¹⁵" T.2 N., R. 20 E. Chainman.
 Chainman.
 Moundman.
 Moundman.
 Arman.
 Arman.
 Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
 United States Deputy Surveyor, in surveying all
 parts or portions of the

..... of the
 meridian, of which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 monuments established, according to the instructions furnished by the United States Surveyor
 general for

For final affidavits see book "Z¹⁵" Tp.2 N., R. 20 E. Chainman.
 Chainman.
 Moundman.
 Moundman.
 Arman.
 Arman.
 Flagman.

scribed and sworn to before me this }
 day of , 190 }
 , 190 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of _____ day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavits see book "Z15" Tp.2 N., R. 20 E.

of the _____ meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



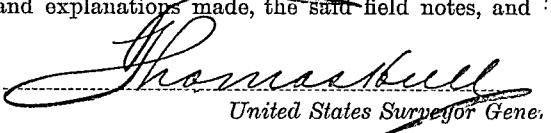
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 1906

The foregoing field notes of the survey of the subdivisional lines of Township No. 3 South, Range No. 20 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart
under their contract No. 295, dated April 30, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.


Thomas Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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4-670.

BOOK A-335
E.FILED
SEP 19 1906

FIELD NOTES

Retracement
OF THE SURVEY OF THE

FRACTIONAL WEST BOUNDARY

of

Township No. 3 South, Range No. 20 East,

and

FRACTIONAL WEST BOUNDARY FORT THERNEBURY MILITARY

RESERVATION,

in

Township No. 3 South, Range No. 20 East,

Of the SALT LAKE BASE AND Meridian,

STATE OF UTAH.

AS SURVEYED BY

ott P. Stewart and John R. Stewart, United States Deputy Surveyors

their Contract No. 285, dated April 30, 1906, 1906.

tracement

way commenced July 3, 1906, 1906.

tracement

way completed July 3, 1906, 1906.

W. J. McPherson 30117 }
A. W. Ross 1.5480 }
} 2m

NAMES AND DUTIES OF ASSISTANTS.

.....**Harvey Fletcher**.....**Chainman**.....

.....**Leo A. Snow**.....**Chainman**.....

.....**Paul Ashworth**.....**Moundman**.....

.....**Quinby Stewart**.....**Moundman**.....

.....**Alden Oscar Gledhill**.....**Axman**.....

.....**John W. Pickering**.....**Axman**.....

.....**John R. Llewellyn**.....**Flagman**.....

.....For preliminary affidavits see book "B" Tp.4 S., R. 20 E.

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Volume

#

R0335

BOOK A-335

INDEX DIAGRAM.

Township 3 South, Range 20 East

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28	29	28	27	26	25
31	32	33	34	35	36

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we measuring, to the best of our skill and ability, and in accordance with instructions given us, in the

Chai

, Chain

Subscribed and sworn to before me this _____
day of _____, 190 _____



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the

Mound

, Mound

Subscribed and sworn to before me this _____
day of _____, 190 _____



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the survey

Subscribed and sworn to before me this _____
day of _____, 190 _____



I, _____, do solemnly swear that I will well and to perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of _____

Flu

Subscribed and sworn to before me this _____
day of _____, 190 _____



Re-surveyment W.bdy T.3 S. R.20 E.

Survey commenced July 3, 1906, and executed with a Young and Sons light mountain transit No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined tested on the meridian at Salt Lake City, found correct and was approved by the surveyor general for Utah, on June 1, 1906.

At the cor. of Tps. 3 and 4 S., R. 18 E., heretofore described, latitude $40^{\circ} 30' 25''$ N., longitude $108^{\circ} 44' 14''$ W.;

At 0 h 46 m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point thereof on a peg driven in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 34'$ to the west and mark the meridian thus determined, by a cross on a stone, firmly set in the ground, 5.00 chs. N. of the cor.

At 7 h 4 m a.m., l.m.t. I set off $40^{\circ} 30' N.$, on the lat. arc; $23^{\circ} 2' N.$, on the decl. arc; and mark the meridian determined with the solar, by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.38 ins. east of the meridian established by Polaris observation; therefore I concluded that the adjustments of the instrument are satisfactory.

At 7 h 2 m a.m., l.m.t., the magnetic bearing of the meridian, is $N. 16^{\circ} 18' W.$, the angle thus determined gives the mag. decl. $16^{\circ} 18' E.$

Note: For complete test of instrument see notes of S. bdy. of Tp., 4 S., R. 18 E.

Note: From the closings made in the subdivision of T. 3 S., R. 20 E., I deem it necessary to retrace part of the west bdy. of said Tp. and part of the west bdy. of the Fort Thornburg Military Reservation;

Retracement " bdy. of Tp. S. E. R. 90' W.

Therefore I run

North, on retracement line along W. bdy. of Tp., bet. secs. 31 and 36.

40.23 The $\frac{1}{4}$ sec. cor. bet. secs. 31 and 36, which is a quartzite stone, 6x9x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears West 15 lks. dist.

80.23 The cor. of secs. 25, 30, 31, and 36, which is a red sandstone, 6x12x10 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears West, 30 lks. dist.

The course of this line is therefore N.0°13'W. 80.23 chs.

North, on retracement line bet. secs. 25 and 30.

40.30 The $\frac{1}{4}$ sec. cor. bet. secs. 25 and 30, which is a staticnary sandstone, 10x18x12 ins., above ground, mkd. and witnessed as described by the surveyor general, bears 18 lks. W.

80.76 The cor. of secs. 19, 24, 25, and 30, which is a sandstone, 6x10x10 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears W.35 lks. dist.
The course of this line is therefore N.0°15'W., 80.76 chs.

North, on retracement line bet. secs. 19 and 24.

40.06 The $\frac{1}{4}$ sec. cor. bet. secs. 19 and 24, which is ^{a sandstone,} 7x12x6 ins., above ground firmly set, and mkd. and witnessed as described by the surveyor general bears W.15 lks. dist..

80.18 The cor. of secs. 15, 18, 19, and 24, which is sandstone, 10x20x10 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears W.30 lks. dist.
The course of this line is therefore N.0°13'W.

Retracement West bdy. sec. 3 S. P. 21 E. -C. incl'd.

July 3, 1906. At this cor. I set off $25^{\circ} 00' N.$, on the decl. arc; and at 0 h 4 m p.m., l.m.t., I observē the sun on the meridian; the resulting lat. is $40^{\circ} 35' N.$, which is the proper lat. nearly.

Retracement Part of West bdy. Fort Thornburg Military Reservation.

Begin at angle cor. on bdy. which is 56.22 chs. S. $40^{\circ} 45' E.$, from 10th mile cor. and described as follows: A pine post, 4 ins. sq., $1\frac{1}{2}$ ft. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

Thence I run

S. $71^{\circ} 15' E.$, on a retracement line along the said Fort Thornburg Military Reservation bdy.

21.29 The closing cor. of secs. 32 and 33, set from the north, which is a sandstone, 6x7x5 ins., above ground, firmly set and mkd. and witnessed as described by the surveyor general, bears N. $18^{\circ} 45' E.$, 7 lks. dist.

23.78 The 11th mile cor. on the Reservation bdy. , which is a sandstone, 10x14x7 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears N. $18^{\circ} 45' E.$, 8 lks. dist.

The course of this mile is therefore S. $71^{\circ} 26' E.$, 23.78 chs.

S. $71^{\circ} 15' E.$, on retracement line along the 12th mile on reservation bdy.

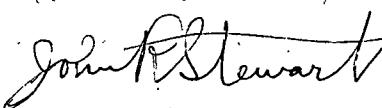
.21 The closing cor. of secs. 32 and 33, set by myself.

40.20 The $\frac{1}{2}$ mile cor. bet. the 11th and 12th mile cors. on the reservation bdy. bears N. $18^{\circ} 45' E.$, 13 lks. dist. It is a sandstone, 10x14x7 ins. above ground, firmly set, and mkd.

Retracement West bdy. Fort Thornburg Military Reservation.

- Chains and witnessed as described by the surveyor general.
- 80.51 The 12th mile cor. on the Reservation bdy., which is a sandstone, 10x11x6 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears N.18° 45' E., 26 lks. dist.
- The course of this line is therefore S.71° 26' E., 80.51 chs.
- S.71° 15' E., along the 13th mile on reservation bdy.
- 2.14 The closing cor. of secs. 33 and 34, set from the north, which is a sandstone, 7x10x9 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears N.18° 45' E. 1 lk. dist.
- 4.15 The closing cor. or fract. secs. 33 and 34, set by myself this contract bears N.18° 45' E., 2 lks. dist.
- 10.51 The closing cor. of Tps. 3 and 4 S., R. 20 E., set from the east, which is a sandstone, 6x12x5 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears N.18° 45' E., 4 lks. dist.
- The course of this line is therefore E.71° 26' E. 10.51 chs.

July 3, 1906.


John P. Stewart
U.S. Deputy Surveyor.

W. J. C. 1-330

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____
 _____, United States Deputy Surveyor, to assist in running, measuring, and
 taking the lines and corners described in the foregoing field notes of the survey of _____
 wing the respective capacities in which they acted:

_____, Chainman.
 or final affidavits see book "Z" ⁴ Tp. 3 N., R. 22 E. _____, Chainman.
 _____, Moundman.
 _____, Moundman.
 _____, Axman.
 _____, Axman.
 _____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____
 _____, United States Deputy Surveyor, in surveying all
 e parts or portions of the _____

 _____ of the _____
 _____ meridian, _____ of _____, which are represented
 e foregoing field notes as having been surveyed by him and under his direction; and that said survey
 been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 er monuments established, according to the instructions furnished by the United States Surveyor
 oral for _____
 final affidavits see book "Z" ⁴ Tp. 3 N., R. 22 E. _____, Chainman.

_____ , Chainman.
 _____, Moundman.
 _____, Moundman.
 _____, Axman.
 _____, Axman.
 _____, Flagman.

scribed and sworn to before me this _____ }
 day of _____, 190 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of _____ day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavits see book "Z⁴" Tp. 3 N., R. 22 E.

of the _____ meridian, in the _____ of _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 1906

The foregoing field notes of the survey of retracement of fractional west boundary of Township No. 3 South, Range No. 20 East and fractional west boundary Fort Thornburg Military Reservation in T. 3 South, Range No. 20 E. of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart
under their contract No. 295, dated April 30, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas Bell
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, Michigan, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-335

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FIELD NOTES

Retracement
OF THE SURVEY OF THE

FRACTIONAL SUBDIVISION

of

Township No. 5 South, Range No. 20 East.

SALT LAKE BASE AND
Of the Meridian,

STATE OF UTAH

AS SURVEYED BY

Patt P. Stewart and John K. Stewart, United States Deputy Surveyors

their
Contract No. 295, dated April 30, 1906, 1906

Tracement

Survey commenced July 4, 1906, 1906

Tracement

Survey completed July 4, 1906, 1906

Re 378 50' Line

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher Chainman

Leo A. Snow Chainman

Paul Ashworth Moundman

Quinby Stewart Moundman

Alden Oscar Gledhill Axman

John W. Pickering Axman

John R. Llewellyn Flagman

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Volume

#

R0335

BOOK A-335

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20	20	24	25	26	25
21	22	23	24	25	24

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PRELIMINARY OATHS OF ASSISTANTS.

WE, Harvey Fletcher and Leo A. Snow

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the retracement of fractional subdivisions of T.3 S.R.20^E; and T.3 N.R.20^E of the Lake Baseline and Meridian, Utah.

Harvey Fletcher, Chain
Leo A. Snow, Chair

Subscribed and sworn to before me this 7th
day of June, 1906.



John R. Stewart
U.S. Deputy Surveyor

WE, Paul Ashworth and Quinby Stewart

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the retracement of fractional subdivisions of T.3 S.R.20^E; and T.3 N.R.20^E of the Lake Baseline and Meridian, Utah.

Paul Ashworth, Mound
Quinby Stewart, Mound

Subscribed and sworn to before me this 7th
day of June, 1906.



John R. Stewart
U.S. Deputy Surveyor

WE, Alden Oscar Gledhill and John W. Pickering

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the retracement of fractional subdivisions of T.3 S.R.20^E; and T.3 N.R.20^E of the Lake Baseline and Meridian, Utah.

Alden Oscar Gledhill
John W. Pickering

Subscribed and sworn to before me this 7th

day of June, 1906.



John R. Stewart
U.S. Deputy Surveyor

I, John R. Llewellyn, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the retracement of fractional subdivisions of T.3 S.R.20^E; and T.3 N.R.20^E of the Lake Baseline and Meridian, Utah.

John R. Llewellyn, Flag

Subscribed and sworn to before me this 7th

day of June, 1906.



John R. Stewart
U.S. Deputy Surveyor

Retracement Subdivision T. 3 S. P - E

Chains. Survey commenced July 4, 1906 and executed with a Young and Sons light mountain transite, No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc, which is also the least count of the verniers of the latitudes and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on June 1, 1906.

At the cor. of secs. 13, 18, 19, and 24 on W. bdy. of Tp., heretofore described, latitude $40^{\circ} 33' N.$, longitude $109^{\circ} 44' 14'' W.$, at 7h. 4m. a.m. l.m.t. I set off $40^{\circ} 33' N.$ on the lat. arc; $22^{\circ} 57' N.$ on the decl. arc; and determine a meridian with the solar.

Note: For complete test of instrument see notes of the south bdy. of T. 4 S., R. 19 E.

Note: on account of closings made in the subdivision of this township I deem it necessary to retrace some of the old lines adjoining my survey.

Therefore from the above described cor. I run East on a retracement line bet. secs. 18 and 19, which Thel/4 sec.cor. bet. secs. 18 and 19, which is quartzite stone 6x7x6 ins. above ground, firmly set and mkd. and witnessed as described by the surveyor general, bears north 108 lks. dist.

39.10 The cor. of secs. 17 and 18, heretofore described, bears N. 2.19 chs. dist.

79.27 The course of this line is therefore $N. 88^{\circ} 25' E.$ and distance 79.30chs.

East on a retracement line bet. secs. 17 and 20,

22.00 The closng cor. of secs. 19 and 20, set by myself.

Retracement and division T - 3S - R - 20 E

- Chains. The 1/4 sec.cor.betsecs.17 and 20, which is a quartzite
39.20 stone, 6x18x10 ins. above ground, firmly set, and mkd.
and witnessed as described by the surveyor general,
bears N.9 lks.dist.
- 79.00 The cor.of secs.16,1720and 21, heretofore described,
bears N.18 lks.dist.
The course of this line is therefore N.89° 52'E. and
distance 79.00 chs.
-
- 40.00 East on a retracement line bet.secs.16 and 21,
The 1/4 sec.cor.betsecs.16 and 21, which is a sandstone
6x24x24 ins.above ground, firmly set and marked and
witnessed as described by the surveyor general.
- 80.00 The cor.of secs.16,17,20, and 21, which is aquartzite
stone 6x18x10 ins.above ground, firmly set and marked
and witnessed as described by the surveyor general.
The course of this line is therefore East and distance
80.00 chs.
-
- 40.08 East on a retracement line bet.secs.15 and 22,
The 1/4 sec.cor., a stationary sandstone 30x20x20 ins.
above ground, marked and witnessed as described by the
surveyor general, bears S.36 lks.dist.
- 80.20 The cor.of secs. 14, 15,22, and 23, a sandstone 6x10x8
ins. above ground, firmly set and marked and witnessed
as described by the surveyor general, bears S.72 lks.
dist.
The course of this line is therefore N.89° 29'E. and
distance 80.20 chs.

July 4, 1906.

Retracement Subdivision T 3 S., R. 20 E.

Latitudes, Departures and Closing Errors.

Line Designated	True Bearing	Distance	Latitudes		Departures	
			N. ch.	S. ch.	E. ch.	W. ch.
S.bdy.T. 3 S.R.20 E. West		246.16	.....	.....	.....	246.16
W.bdy.T. 3 S.R.20 E.						
Sec.31	N.0° 13'W.	76.31	76.31	.....	.....	29
Sec.30	N.0° 15'W.	80.76	80.76	.....	.....	35
Sec.19	N.0° 13'W.	80.18	80.18	.....	.....	30
T.3 S., R. 20 E.						
N.bdy.sec.19	N.88° 25'E.	79.30	2.19	.....	79.27	.....
N.bdy.sec.20	N.89° 52'E.	79.00	.18	.....	79.00	.....
N.bdy.sec.21	East	80.00'	.....	.....	80.00	.....
N.bdy.sec.22	N.89° 29'E.	80.20'	.72	.....	80.20	.....
E.bdy.sec.22,	South	80.00'	.....	80.00	.....	.....
N.bdy.Ft.Thornburg						
Mil.Res.T.3 S.R.20E.N.84°39'W.		192.30	17.93	.....	.....	191.46
W.bdy.Ft.Thornburg						
Mil.Res.T.3 S.R.20 E.S.4° 45'E.		142.17	.....	141.68	11.77	.....
S.bdy.Ft.Thornburg						
Mil.Res.T.3 S.R.20 E.S.71°26'E.		114.80	.....	36.55	108.82	.....
Convergency						.14
Total s			258.27	258.23	439.20	438.56
			<u>258.23</u>		<u>438.56</u>	
Error in lat. and dep.				.04		.64

John P. Stewart
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of

owing the respective capacities in which they acted:

For final affidavits see book "Z" ¹⁰ T. 3 N., R. 20 E., Chainman.
 , Chainman.
 , Moundman.
 , Moundman.
 , Axman.
 , Axman.
 , Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
 United States Deputy Surveyor, in surveying all
 parts or portions of the

..... of the
 meridian, of which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for

For final affidavits see book "Z" ¹⁰ T. 3 N., R. 20 E., Chainman.
 , Chainman.
 , Moundman.
 , Moundman.
 , Axman.
 , Axman.
 , Flagman.

scribed and sworn to before me this }
 day of , 190 }

GOOOOO
O SEAL
GOOOOO

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, bearing date _____, day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

For final affidavits see book "Z¹⁰" Tp. 3 N., R. 20 E.
 _____ of the _____ meridian, in the _____, which are represented by the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
 this _____ day of _____, 190_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, _____

The foregoing field notes of the survey of the retracement of the fractional subdivision of Township No. 3 South, Range No. 20 East, of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart
 their under contract No. 295, dated April 30, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, retracements surveys they describe, are hereby approved.

Thomas H. Marshall
 United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-335
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FIELD NOTES

OF THE SURVEY OF THE

FRACTIONAL SOUTH BOUNDARY

of

Township No. 4 South, Range No. 19 East,

Of the SALT LAKE BASE AND Meridian,
STATE OF UTAH

AS SURVEYED BY

Ott P. Stewart and John R. Stewart, United States Deputy Surveyors,
their
~~under~~ Contract No. 295, dated April 30, 1906, 1906

Survey commenced July 4, 1906., 1906

Survey completed July 5, 1906., 1906

6-161

Brayd 1-79-40'
Chas 10 45'

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher. Chainman

Leo A. Snow Chainman

Paul Ashworth Moundman

Quinby Stewart Moundman

Alden Oscar Gledhill Axman

John W. Pickering Axman

John R. Llewellyn Flagman

For preliminary affidavits see book "A" Tp. 4 S., R. 20 E.

South boundary of T.4 S., R.19 E.-Continued.

Survey commenced July 4, 1906, and executed with a Young and Sons light mountain transit, No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on June 1st, 1906.

To examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus, by comparing its indications resulting from solar observations made during p.m. and a.m. hours with a meridian established by Polaris observation, I proceed as follows:

At the cor. of Tps. 4 and 5 S., Rs. 19 and 20. E., heretofore described, latitude $40^{\circ} 25' 12''$ N., longitude $109^{\circ} 44' 14''$ W., I set off $40^{\circ} 25' N.$, on the lat. arc; $22^{\circ} 55' N.$, on the decl. arc; and at 5 h 4 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

July 4, 1906.

July 5, 1906: At 0 h 40.4 m a.m. l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark the line thus determined, by a tack driven in a wooden plug set in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 34'$ to the west, and mark a point in the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.3 in. east of the mark determined with the solar.

At 7 h 2 m a.m., l.m.t. I set off $40^{\circ} 25' N.$, on the lat. arc;

South bdy. T. 4 S., R. 19 E. -Continued.

- Chains 21° 52' N., on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone, already set 5.00 chs. N. of the cor.; this mark falls 0.41 ins. east of the meridian established by Polaris observation. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about 0° 16" west and 0° 22" east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the transit are satisfactory.
- The magnetic bearing of the meridian, at 7 h 30 m. a.m., l.m.t., is N. 16° 16' W., the angle thus determined gives the mag. decl. 16° 16' E.
- From the cor. of Tps. 4 and 5 S., Rs. 19 and 20 E., heretofore described I run West, on true line along south bdy. of Tp., bet. secs. 1 and 36.
- Over mountainous land; through dense sage brush.
- Desc.
- 7.50 Bottom of hollow, 50 ft. below Tp. cor., course S.
- Asc.
- 15.00 Top of spur, 40 ft. above hollow, bears NW and SE.
- Desc.
- 19.00 Bottom of hollow, 40 ft. below spur, course S. 40° E.
- Asc.
- 37.00 Foot of perpendicular sandstone, 10 ft. high, bears N. and S.
- 40.00 Top of spur, 150 ft. above hollow, bears N. and S.
- Set a sandstone, 16x11x9 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor. mkd. $\frac{1}{2}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- Desc.
- 42.50 Head of hollow, 10 ft. below spur, course S.

South bdy. T. & S., R. 19 E. Continued.

Chains	Asc.
47.50	Top of spur, 40 ft. above hollow, bears N. and S. Desc.
54.00	Top of ledge of sandstone, 15 ft. high, bears N. and S.
67.00	Bottom of hollow, 250 ft. below spur, course SE. Asc.
73.00	Top of ridge, 350 ft. above hollow, bears NW and SE. Desc.
77.50	Bottom of hollow, 200 ft. below spur, course SE. Asc.
80.00	Set a sandstone, 16x14x7 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 35, and 36, mkd. with 1 notch on E. and 5 notches on W. edges; and raise a mound of stone, 2 ft. base, 1 ft. high, W. of cor. Land, mountainous. Soil, gravelly and clay loam; 2nd rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, etc., etc.
	West, on a true line bet. secs. 2 and 35. Over mountainous land; through dense undergrowth, etc.
.50	Top of ridge, 10 ft. above sec. cor., bears NW. and SE. Desc.
5.50	Bottom of hollow, 100 ft. below ridge, course SE. Asc.
8.50	Top of ridge, 200 ft. above hollow, bears N. and S. Desc.
21.00	Foot of descent, bears N. and S. Enter flat.

S. Hwy T S R 19 E - continued

Chains	
24.50	Wash, 100 lks. wide, 3 ft. deep, course SW.
37.50	Wash, 100 lks. wide, 10 ft. deep, course SE.
40.00	Set a sandstone, 14x12x6 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
43.50	Leave flat, and begin ascent, bears NW and SE.
45.00	Top of ridge, 75 ft. above flat, bears NW and SE.
Desc.	
61.00	Bottom of hollow, 100 ft. below ridge, course SE.
Asc.	
69.50	Top of rocky spur, 100 ft. above hollow, bears NW and SE.
Desc.	
72.30	Bottom of hollow, 100 ft. below spur, course S.
Asc.	
79.00	Top of ascent, 200 ft. above hollow, bears N. and S.
	Thence Over mesa.
79.40	Intersect Uintah Indian Reservation bdy. Set a sandstone, 18x10x9 ins., 12 ins. in the ground, for closing cor. of Tps. 4 and 5 S., R. 19 E., mkd. C C on E., U.I.R. on W., 4 S on N., 5 S. on S., 19 E. on E., with 6 grooves on N. and S., and 2 grooves on E. faces; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor. From this cor. the 24th mile cor. of the bdy., which is a sandstone, 10x12x10 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears as follows:
	N. 11° W., 10.45 chs., to mile stone No. 24.
	Land, mountainous and level.
	Soil, gravelly and clay loam; 2nd and 3rd rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 78.40 chs.

S.bdy.T.4 S.,R.19 E.-Contcluded.

July 5,1906:At the noon hour the sky is overcast and solar observations are impossible.

July 5,1906.

Boundaries of T.4 S R.19 E.

Line Designated	Course	Dist- ance chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
S.bdy.T.4 S.,R.19 E.	West	159.40				159.40 ✓
E.bdy.U.I.Reservation	N.11° W.	10.45	10.26			1.99
E.bdy.U.I.Reservcation	N.17° 48' E	79.87	76.05		24.42	
E.bdy.U.I.Reservation	N.18° E.	119.84	113.97		37.03	
E.bdy.U.I.Reservation	N.12° 30' W.	39.80	38.86			8.61 ✓
E.bdy.U.I.Reservation	N.31° E.	59.80	51.26		30.80	
E.bdy.U.I.Reservation	N.55° 45' E.	36.42	20.50		30.10	
E.bdy.U.I.Reservation	N.19° 15' E.	78.27	73.89		25.80	
E.bdy.U.I.Reservcation	N.24° E.	54.67	49.94		22.23	
E.bdy.T.4 S.,R.19 E.	South	434.67	434.67			✓ .10
Convergency						
Totals			434.73	434.67	170.48 ✓	170.00
Error in lat.			434.67		170.00	
Error in dep.			.06		.48	

Boundaries of T 4 S F 10 E

Latitudes, departures, and closing errors.

Line designated	Course	Dist- ance chs.	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
E.bdy.U.I.Reservation	N.85° 36' W.	220.72	24.60			.219.
L.bdy.U.I.Reservation	N.10° W.	11.67	11.49			.2.
N.bdy.T.4 S.,R.19 E.	S.88° 07' E.	57.20		1.88	57.17	
N.bdy.T.4 S.,R.19 E.	S.89° 50' E.	82.40		.24	82.40	
E.bdy.T.4 S.,R.19 E.	N.89° 35' E.	81.40	.59		81.40	
L.bdy.T.4 S.,R.19 E.	South	34.53		34.53		
Convergency						.04
Totals			36.68	36.65	221.01	221.
Error in lat.			36.65			
Error in dep.				.03		221.

GENERAL DESCRIPTION.

This township is mountainous; it is covered with an abundant growth of grass. It should be subdivided.



John R. Stewart

U.S. Deputy Surveyor.

July 5, 1906.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 laying the lines and corners described in the foregoing field notes of the survey of
 being the respective capacities in which they acted:

For final affidavits see book #211, Tp. 3 N., R. 20 E., Chairman,
 , Chairman,
 , Moundman,
 , Moundman,
 , Armon,
 , Armon,
 , Flagman,

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

, United States Deputy Surveyor, in surveying all

the parts or portions of the

described in the foregoing field notes, in making the surveys and

escriptions,

which are represented
 the foregoing field notes as having been surveyed by him and under his direction; and that said surveys
 were in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 true monuments established, according to the instructions furnished by the United States Surveyor
 and for

For final affidavits see book #211, Tp. 3 N., R. 20 E., Chairman,
 , Chairman,
 , Moundman,
 , Moundman,
 , Armon,
 , Armon,
 , Flagman,

Sworn and sworn to before me this
 day of , 190

2000
2000

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I United States Deputy Surveyor
 solemnly swear that, in pursuance of a contract received from
 United States Surveyor General for bearing date c
 day of 190 , I have well, faithfully, and truly, in my
 proper person, and in strict conformity with the instructions furnished by the United States Surveyor
 General for the Manual of Surveying Instructions, and the laws of
 United States, surveyed all those parts or portions of
 ¹¹
 for final affidavits see book "Z" Tp. S. N. R. 20 E.

..... of the
 meridian, in the of which are represented :
 foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
 this day of 190 }

000000
O NEAL O
000000

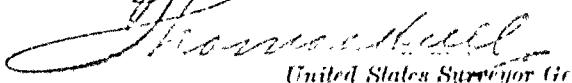
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4,

The foregoing field notes of the survey of the Fractional South Boundary of Township No. 4 South, Range No. 19 East, of the Salt Lake Base Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart,
 under the contract No. 295 , dated April 30, 1906 , having
 carefully examined, and the necessary corrections and explanations made, the said field notes, in
 survey they describe, are hereby approved.


 United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in
 has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-335

FILED

SER 19 1906
[Handwritten signature]

H.

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

of

Township No. 4 South, Range No. 19 East,

Of the Salt Lake Base and Meridian,

STATE OF UTAH

AS SURVEYED BY

Scott P. Stewart and John R. Stewart, United States Deputy Surveyors

under their Contract No. 295, dated April 30, 1906, 1906.

Survey commenced July 5, 1906, 1906.

Survey completed July 8, 1906, 1906.

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*Length 9.39.42'
Cdg 1.78.35✓*

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher Chainman.....

Leo A. Snow Chainman.....

Paul Ashworth Moundman.....

Quinby Stewart Moundman.....

Alden Oscar Gledhill Axman.....

John W. Pickering Axman.....

John R. Llewellyn Flagman.....

For preliminary affidavits see book "C" Tp. 4 S.... R. 20 E.....

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Volume

#

R0335

BOOK A-335

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				5		3	
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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we may be measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of , Chaining.

Subscribed and sworn to before me this }
day of , 190 }



We, and do solemnly swear that we will well and truly perform the duties of moudmen in the establishe of corners, according to the instructions given us, to the best of our skill and ability, in the surv

Subscribed and sworn to before me this }
day of , 190 }



We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the surv

Subscribed and sworn to before me this }
day of , 190 }



I, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in survey of , Flag.

Subscribed and sworn to before me this }
day of , 190 }



Subdivision of T 4 S. R 19 E.

Survey commenced July 5, 1906, and executed with a Young and Sons. light mountain transit, No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general for Utah on June 1, 1906.

I examined the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian established by observation on Polaris, I proceeded as follows:

At the cor. of secs. 1, 2, 35, and 36, on S. bdy. of Tp., heretofore described, latitude $40^{\circ} 25' 12''$ N., longitude $109^{\circ} 45' 21.6''$ W., I set off $40^{\circ} 25' N.$, on the lat. arc; $22^{\circ} 50' N.$, on the decl. arc; and at 4 h 4 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

July 5, 1906.

July 6, 1906: At 0 h 36.5 m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined on a peg driven in the ground, 5.00 chs. N. of the cor.

At 6 h 33 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 34'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone, already set 5.00 chs. N. of the cor.; this mark falls 0.32 ins. east of the mark determined with the solar.

At 7 h 4 m a.m., l.m.t., I set off $40^{\circ} 25' N.$, on the lat.

Subdivision of T. 4 R. 19 E., continued.

- arc; $22^{\circ}47'W.$, on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone, already set 5.00 chs. N. of the cor.; this mark falls 0.41 ins. east of the meridian established by Polaris observation. The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0^{\circ}16'W.$ and $0^{\circ}22'E.$ of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.
- The magnetic bearing of the meridian at 7h. 30m. a.m.l.m.t. is $N.16^{\circ}16'W.$; the angle thus determined gives the mag. decl. $16^{\circ}16'E.$.
- From the cor. of secs. 1, 2, 35, and 36, on S. bdy. of Tp., I run N. $0^{\circ}1'W.$, bet. secs. 35 and 36.
- Over mountainous land; through scattering undergrowth. Desc. 3.00 Hollow, 30 ft. below sec. cor., course SE.. Asc.
- 6.00 Top of spur, 100 ft. above sec. cor., bears N. $30^{\circ}W.$ and S. $30^{\circ}E.$. Enter scattering timber, bears N. $20^{\circ}W.$ and S. $20^{\circ}E.$ Desc.
- 24.50 Bottom of hollow, 60 ft. below ridge, course S. $12^{\circ}E.$. Asc.
- 30.00 Top of spur, 75 ft. above hollow, bears N. $20^{\circ}W.$ and S. $20^{\circ}E.$. Desc.
- 40.00 Set a quartzite stone, 18x10x4 ins., 12 inz. in the ground, for sec. cor.. mkd. t on W. face; from which
A cedar, 7 ins. dia., bears N. $45^{\circ}E.$, .39 lks.
dist. mks. t 8 36 B.T.
A cedar, 6 ins. dia., bears S. $58^{\circ}W.$, .32 lks.
dist. mks. t 5 36 B.T.
- 41.00 Bottom of hollow, 100 ft. below spur, course S. $15^{\circ}E.$. Asc.
- 47.00 Top of recent, 100 ft. above hollow, bears N. $15^{\circ}W.$ and S. $15^{\circ}E.$.

Subdivision of T.4 S., R.19 E.-Continued.

- Chains Thence over mesa.
- 79.00 Leave mesa, bears N.30° E. and S.60° W.
- Desc.
- 80.00 A cedar, 6 ins. dia., for cor. of secs. 25, 26, 35, and 36, I mark,
- T 4 S S 25 on NE
R.19 E S 36 on SE.,
S 35 on SW, and
S 26 on NW side, with 1 notch on S., and E. sides; from which
- A cedar, 6 ins. dia., bears N.80° E., 80 lks.
dist.. mkd. T 4 S R 19 E S 25 B T.
- A cedar, 6 ins. dia., bears S.33° W., 134 lks.
dist.. mkd. T 4 S R 19 E S 35 B T.
- No other trees within limits; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Land, mountainous.
- Soil, gravelly and clay loam; 2nd and 3rd rate.
- Timber, cedar.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous land, 80.00 chs.
-
- East, on a random line bet. secs. 25 and 36.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.24 Intersect E. bdy. of Tp., at the cor. of secs. 25, 30, 31, and 36, heretofore described.
- Thence I run
- West, on a true line bet. secs. 25 and 36.
- Over mountainous land, through scattering sage brush.
- Desc.
- 7.00 Bottom of hollow, 40 ft. below sec. cor., course SE.

Subdivision of T 4 S. R. 19 E. -Continued.

Chains	Enter scattering timber, bears NW and SE.
	Asc.
35.00	Top of ridge, 350 ft. above hollow, bears N. and S.
	Desc.
40.12	Set a quartzite stone, 18x8x5 ins., 12 ins. in the ground, for 1/2 sec. cor.. mkd. 1/2 on N. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
44.00	Bottom of hollow, 250 ft. below ridge, course S.
	Asc.
49.00	Top of spur, 150 ft. above hollow, bears N. and S.
	Desc.
56.00	Bottom of hollow, 100 ft. below spur, course S.
	Asc.
63.00	Top of spur, 100 ft. above hollow, bears N. and S.
	Desc.
66.00	Bottom of hollow, 100 ft. below spur, course S.
	Asc.
69.50	Top of ascent, 100 ft. above hollow, bears N. and S. Leave timber, bears N. and S. Thence over mesa.
79.75	Leave mesa, bears N. 30° E. and S. 30° W. Desc.
80.24	The cor. of secs. 25, 26, 35, and 36. Land, mountainous and level. Soil, clay loam; 2nd rate. Timber, cedar. Undergrowth, sage brush. Good grass for grazing. Mountainous land, 80.24 chs. July 6, 1906: At this cor. I set off 22° 45' N., on the decl. arc; and at 0 h. 4 m. p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 26' N., which is the proper lat. nearly;

Subdivision of T.4 S. R. 19 E.- Continued.

- Chains. Note: Knowing that the line bet. secs. 26 and 35 will intersect the Uintah Indian Reservation bdy., I run West on a true line bet. secs. 26 and 35, over mountainous land; through scattering sagebrush. Descend.
- 11.00 Bottom of hollow, 150 ft. below sec.cor., course SW. Asc.
- 14.00 Top of spur, 150 ft. above hollow, bears NE. and SW. Descend.
- 20.00 Bottom of hollow, 200 ft. below spur, course S.. Asc.
- 40.00 Set a sandstone 18x9x6 ins., 12 ins. in the ground, for 1/4 sec.cor., mkd. 1/4 on N. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.
- 40.50 Top of spur, 300 ft. above hollow, bears N. and S. Desc.
- 44.00 Bottom of hollow, 40 ft. below spur, course S. Asc.
- 47.00 Top of ascent, 50 ft. above hollow, bears N. and S. Enter dense sagebrush, bears N. and S. Thence over mesa.
- 59.12 Intersect E.bdy.Uintah Indian Reservation.
Set a sandstone 16x8x5 ins., 11 ins. in the ground, for closing cor.of fractlsecs. 26 and 35, mkd. C C on E. U I R on W., 2 grooves on E. and 1 groove on S.face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high E. of cor.
From this cor. the 25th mile cor.on the reservation bdy. which is a sandstone 6x11x5 ins. above ground, firmly set and mkd. and witnessed as descibed by the surveyor general bears as follows: N.17° 48'E. 6.85 chs. to mile stone No 225
Land mountainous and level.
Soil clay loam; 2nd rate.
No timber.
Undergrowth sagebrush. Good grass for grazing.
Mountainous land, or land covered with dense undergrowth on 59.12 chs.

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Division of T.4 S.19 R.19 - Continued

The Point for cor. of secs. 23, 34, and 35 on S. bdy. of Tp., and also for cor. of secs. 26, 27, 34, and 35, fall within the Uintah Indian Reservation, I proceed to establish the line between secs. 34 and 35 as follows- From the closing cor. of Tps. 4 and 5 S., R 19 E. on S. bdy. of sec. 35, set by me and heretofore described, I run west on a blank line 60 lks. to a point; thence I run N. $0^{\circ}02'$ W. on a blank line a distance of 3.09 chs. where I intersect the boundary of the Uintah Indian Reservation

Set a sandstone 16x9x5 ins., 11 ins. in the ground, for closing cor. of fract. secs. 34 and 35, mkd. C C on N. U I R on S. with 2 grooves on E. face, and raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. From this cor. the 24th mile cor. on bdy. heretofore described bears as follows:

N. $11^{\circ}0'$ W. 7.31 chs. dist.

Thence I run

N. $0^{\circ}02'$ W. bet. secs. 34 and 35

Over mountainous land, through scattering sage brush, ascending.

11.52

Intersect E. bdy. of Uintah Indian Reservation,

Set a sandstone 18x11x9 ins., 12 ins. in the ground, for closing cor. of fract. secs. 34 and 35, mkd. C C on S. U I R on N. with 2 grooves on E. and 1 on S. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high S. of cor.

From this cor. the 24th mile cor. on the reservation bdy. bears S. $17^{\circ}48'$ W. 4.55 chs. dist.

Land mountainous.

Soil gravelly 3rd rate.

No timber.

Good grass for grazing.

Mountainous land on 11.52 chs.

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Subdivision of T.4 S. R. 19 E.- Continued.

Chians.	N. 0° 1' W. bet. secs. 25 and 26,
	Over mountainous land; through dense sagebrush. Desc.
6.00	Bottom of hollow, 100 ft. below sec.cor., course SW. Asc.
9.00	Edge of mesa, 120 ft. above hollow, bears N. 30° E. and S. 60° W. Thence over mesa.
38.00	Leave mesa, bears N. 30° E. and S. 30° W. Desc.
40.00	Set a sandstone 15x9x5 ins., 10 ins. in the ground, for 1/4 sec.cor., mkd. 1/4 on W. face; and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of cor.
50.50	Bottom of hollow, 250 ft. below mesa, course S. 25° W. Asc.
58.00	Enter scattering timber bears NE. and SW.
65.50	Foot of ledge 10 ft. high bears NE. and SW.
80.00	Set a sandstone 16x9x5 ins., 11 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, mkd. with 2 notches on S. and 1 notch on E. edges; from which run dist. A cedar 6 ins. dia. bears N. 68° E. 36 lks. dist. mkd. T 4 S R 19 E S 24 B T
	A cedar 6 ins. dia. bears S. 32° E. 49 lks. dist. mkd. T 4 S R 19 E S 25 B T
	A cedar 8 ins. dia. bears S. 68° W. 16 lks. dist. mkd. T 4 S R 19 E S 26 B T
	A cedar 9 ins. dia. bears N. 32° W. 39 lks. dist. mkd. T 4 S R 19 E S 23 B T
	Land mountainous and level.
	Soil sandy and gravelly; 3rd rate.
	Timber cedar.
	Undergrowth sagebrush. Good grass for grazing.
	Mountainous land; or land covered with dense under- growth 80.00 chs.
	East on a random line bet. secs. 24 and 25, Set temp. 1/4 sec.cor.
40.00	Intersect E.bdy. of Tp. 12 lks. N. of the cor. of secs. 19, 24, 25, and 30, heretofore described. Thence I run
80.40	

Division of T. 4 - Report. - Continual

Chains.	N. $89^{\circ} 55' W.$ on a true line bet. secs. 24 and 25.
	Over mountainous land; through dense undergrowth. Asc.
8.60	Top of ascent, 150 ft. above sec.cor.; bears N. and S.
	Thence over mesa. course SW. Asc.
15.60	Enter scattering timber; bears N. and S.
40.20	Set a sandstone 16x8x6 ins., 11 ins. in the ground, for 1/4 sec.cor., mkd. 1/4 on N. face; from which, A cedar, 5 ins. dia. bears N. $60^{\circ} E.$ 50 lks. dist. mkd. 1/4 S. 24 B.T.
	A cedar, 5 ins. dia. bears S. $24^{\circ} W.$ 47 lks. dist. mkd. 1/4 S. 25 B.T.
40.85	Leave mesa, bears N. $60^{\circ} E.$ and S. $60^{\circ} W.$ Desc.
	Leave timber, bears N. $60^{\circ} E.$ and S. $60^{\circ} W.$
55.60	Bottom of hollow, 250 ft. below mesa, course SW. Asc.
80.40	The cor. of secs. 23, 24, 25, and 26.
	Land mountainous and level.
	Soil gravelly, 3rd rate.
	Timber cedar.
	Undergrowth sagebrush. Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth 80.40 chs.
	July 6, 1906.
50	At 7h. 04 m.a.m. I set off $40^{\circ} 27'$ N. on the lat.arc; $22^{\circ} 41' N.$ on the decl.arc; and determine a meridian with the solar at the cor. of secs. 23, 24, 25, and 26. Thence I run N.
	Knowing that the line bet. secs. 23 and 26 will intersect the Uintah Indian Reservation bdy. I run
	West on a true line bet. secs. 23 and 26,
	Over mountainous land; through scattering timber and scattering sagebrush. Asc.
7.00	Top of ridge, 10 ft. above sec.cor. bears N. $10^{\circ} E.$ and S. $10^{\circ} W.$ Desc.
	Bottom of hollow, 250 ft. below ridge, course S. $20^{\circ} W.$ Asc.

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Subdivision of T. 4 S., R. 19 E. - Continued.

Chains 16.00	Top of ridge, 300 ft. above hollow, bears N. 20° E. and S. 20° W. Enter dense sagebrush, bears N. 20° E. and S. 20° W. Desc. gradually.
25.00	Bottom of swale, 25 ft. below ridge, course S. 30° W. Asc.
32.00	Enter heavy timber, bears N. and S.
32.77	Intersect bdy. of Uintah Indian Reservation. Set a quartzite stone 16x12x6 ins., 11 ins. in the ground for closing cor. of fract. secs. 23 and 26, mkd. C C on E., U I R on W., with 1 groove on E. and 2 grooves on S. face; from which A cedar 4 ins. dia. bears N. 70° 30' E. 62 lks. dist., mkd. T 4 S R 19 E S 23 B T A cedar 4 ins. dia. bears S. 40° 30' E. 24 lks. dist., mkd. T 4 S R 19 E S 26 B T From this cor. the 26th mile cor. on the bdy., which is a sandstone 10x14x12 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor gen- eral, bears as follows; N. 18° E. 2.51 chs. to mile stone No. 26.
	Land mountainous. Soil gravelly and sandy; 3rd rate. Timber cedar. Undergrowth sagebrush. Good grass for grazing. Mountainous or heavily timbered land, or land covered with dense undergrowth 32.77 chs.
3.00	N. 0° 01' W. bet. secs. 23 and 24, Over mountainous land; through scattering timber. Asc. Top of ridge, 5 ft. above sec. cor., bears N. 10° E. and S. 10° W. Desc.
15.00	Bottom of hollow, 100 ft. below ridge, course S. 30° W. Asc.

Subdivision of T. 4 S., R. 19 E.- Continued.

Chains.	
Chains.	
23.50	Top of spur, 100 ft. above hollow, bears NE. and SW. Desc.
31.00	Bottom of hollow, 200 ft. below spur, course S.10°W. Asc.
37.00	Same hollow course S.20° E. Asc.
40.00	Set a sandstone 17x11x4 ins., 11 ins. in the ground, for 1/4 sec.cor., mkd. 1/4 on W.face; from which A cedar 4 ins.dia.bears N.80°E. 18 lks.dist. mkd. 1/4 S 24 B T A cedar 4 ins.dia.bears N.67° W. 20 lks.dist. mkd. 1/4 S 23 B T
51.00	Top of ridge, 300 ft. above hollow, bears N.20° E. and S.20°W. Desc.
57.75	Top of ledge, 30 ft. high, bears NE. and SW.
78.50	Bottom of hollow, 150 ft. below ridge, course S.10°W. Asc.
80.00	Set a sandstone 18x11x11 ins. 12 ins. in the ground for cor.of secs.13,14,23, and 24, mkd. with 3 notches on S. and 1 notch on E.edges; from which A cedar 10 ins.dia.bears N.70°E. 57 lks.dist. mkd. T 4 S R 19 E S 13 B T A cedar 6 ins.dia.bears S.165° E. 60 lks.dist. mkd. T 4 S R 19 E S 24 B T
	No other trees within limits; raise a mound of stone 2 ft.base, 1 1/2 ft.high W.of cor.
	Land mountainous.
	Soil gravelly and stony; 3d rate.
	Timber cedar, Good grass for grazing.
	Mountainous. land 80.00 chs.
	S.89° 55'E.on a random line betsecs.13 and 24.
40.00	Set Set temp. 1/4 csec.cor.
80.46	Intersect E.bdy. of Tp. 12 lks.S. of the cor.of secs.13,18

Subdivision of T.4 S. P.19 E.-Continued.

Chains	19, and 24, heretofore described. Thence I run West, on a true line bet. secs. 13 and 24. Over mountain us land; through scattering cedar timber. Asc. 9.00 Top of ridge, 75 ft. above sec.cor., bears N.15° E. and S.16° W. Desc.
21.00	Bottom of hollow, 400 ft. below ridge, course S.20° W. Asc.
26.00	Top of spur, 150 ft. above hollow, bears N.20° E. and S.20° W. Desc.
37.00	Bottom of hollow, 75 ft. below spur, course S.20° W. Asc.
40.23	Set a sandstone, 16x9x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. $\frac{1}{4}$ on N. face; from which A cedar, 7 ins. dia., bears N.63° W., 88 lks. dist.. mkd. $\frac{1}{4}$ S 13 B T. A cedar, 4 ins. dia., bears S.60° W., 59 lks. dist.. mkd. $\frac{1}{4}$ S 24 B T.
43.00	Top of spur, 50 ft. above hollow, bears N.20° E. and S.20° W. Desc.
72.00	Bottom of hollow, 65 ft. below spur, course S.10° W. Asc.
75.00	Top of spur, 40 ft. above hollow, bears N.20° E. and S.10° W. Desc.
79.40	Hollow, 30 ft. below spur, course S.10° W. Asc.
80.46	The cor. of secs. 13, 14, 23, and 24. Land, mountainous. Soil, gravelly; 3rd rate. Timber, cedar. Good grass for grazing. Mountainous land, 80.46 chs.
	July 7, 1906: At this cor. I set off 22° 38' N., on the decl.

Subdivision of T. 4 S. R. 19 E. Continued.

Chains and at 0 h 4 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ} 28' N.$, which is the proper lat. nearly.

Note: Knowing that the line bet. secs. 14 and 23, will intersect the Uintah Indian Reservation bdy. I run

West, on a true line bet. secs. 14 and 23.

Over mountainous land; through scattering timber.

Asc.

6.00 Top of spur, 40 ft. above sec. cor., bears N. and S.

Desc.

9.00 Bottom of hollow, 40 ft. below sour, course $S.15^{\circ} E.$

Asc.

18.00 Foot of sandstone ledge 15 ft. high, bears NE and SW; about 13.00 chs. in each direction.

21.00 Enter heavy timber, bears N. $30^{\circ} E.$ and S. $30^{\circ} W.$

24.00 Road on top of ridge, 200 ft. above hollow, bears N. $30^{\circ} E.$ and S. $30^{\circ} W.$

Desc.

27.67 Intersect E. bdy. of Uintah Indian Reservation.

Set a sandstone, $18 \times 9 \times 6$ ins., 12 ins. in the ground, for closing cor. of fract. secs. 14 and 23, mkd. C C on E., U I R on W., with 3 grooves on S. and 1 groove on E. faces; from which

A cedar, 6 ins. dia., bears N. $76^{\circ} E.$, 40 lks.
dist. mkd. T 4 S R 19 E S 14 B T.

A cedar, 7 ins. dia., bears S. $43^{\circ} E.$, 33 lks.
dist. mkd. T 4 S R 19 E S 23 B T.

From this cor. the 27th mile cor. on the reservation bdy., which is a sandstone, $10 \times 16 \times 12$ ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears as follows:

Subdivision of T. 1 S. R. 19 E. -Continued

Chains S.31°W., 80 lks. to 27th mile cor.
 Land, mountainous.
 Soil, gravelly; 3rd rate.
 Timber, cedar.
 Good grass for grazing.
 Mountainous or heavily timbered land, 27.67 chs.

Note: Knowing that the line bet. secs. 13 and 14, will intersect the reservation bdy.

I run N. 0° 1' W., on true line bet. secs. 13 and 14.

Over mountainous land; through scattering sage brush.

Asc.

6.00 Top of spur, 60 ft. above sec. cor., bears E. and W.

Desc.

16.00 Bottom of hollow, 100 ft. below spur, course W.

Asc.

18.00 Top of spur, 50 ft. above hollow, bears NE and SW.

Desc.

21.00 Bottom of hollow, 50 ft. below spur, course S. 30° W.

Asc.

30.00 Top of spur, 60 ft. above hollow, bears E. and W.

Desc.

38.50 Bottom of hollow, 50 ft. below spur, course S. 60° E.

Asc.

40.00 Set a quartzite stone, 18x12x5 ins., 12 ins. in the ground, for $\frac{1}{2}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; from which

A cedar, 7 ins. dia., bears S. 88° E., 16 lks.

dist. mkd. $\frac{1}{4}$ S 13 B T.

A cedar, 6 ins. dia., bears N. 63° W., 23 lks.

dist. mkd. $\frac{1}{4}$ S 14 B T.

46.45 Intersect E. bdy. of Uintah Indian Reservation.

Subdivision of T.4 S., R.19 E.-Continued.

Chains	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for closing cor. of fract. secs. 13 and 14, mkd. G.C. on S., U I R on N., with 4 grooves on S. and 1 groove on E. faces; from which
	A cedar, 4 ins. dia., bears N. 68° E., 32 lks. dist. mkd. T 4 S R 19 E S 13 B.T.
	A cedar, 5 ins. dia., bears S. 11° 30' W., 87 lks. dist. mkd. T 4 S R 19 E S 14 B.T.
	From this cor, $\frac{1}{2}$ mile cor. bet. 27th and 28th mile ^(mile cors.) , which is sandstone, 9x22x10 ins., above ground, firmly set and mkd. and witnessed as described by the surveyor general, bears as follows:
	S. 31° W. 15.01 Chs. to $\frac{1}{2}$ mile cor. bet. 27th and 28th mile cor. Land, mountainous.
	Soil, gravelly; 3rd rate.
	Timber, cedar.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, 46.45 chs.
	Note : Knowing from connections already made that the line bet. secs. 12 and 13 will intersect the Reservation bdy.
	I run
	west, on a true line bet. secs. 12 and 13.
	Over mountainous land; through heavy timber.
	Desc.
10.00	Bottom of hollow, 25 ft. below sec. cor., course S. 20° W.
	Asc.
15.00	Top of spur, 25 ft. abovē hollow, bears N. 20° E. and S. 20° W.
	Desc.
22.00	Bottom of hollow, 40 ft. below spur, course S. 20° W.

S U M M A R Y
Division of T 4 S R 19 E - C. tinned

Chains. Asc.
 27.00 Top of spur, 40 ft. above hollow, bears N. and S..
 Desc.
 40.00 Set a sandstone 18x8x5 ins., 12 ins. in the ground, for
 1/4 sec.cor., mkd.1/4 on N.face; from which
 A cedar 9 ins.dia.bears N.52° E. 42 lks.dist.
 mkd.1/4 S 12 B T
 A cedar 15 ins.dia.bears S.62° E. 47 lks.dist.
 mkd.1/4 S 13 B T
 42.50 Bottom of hollow, 25 ft. below spur, course S.25° W.
 Asc.
 43.50 Wagon road bears N.20° E. and S.20° W.
 44.50 Top of ridge, 40 ft. above hollow, bears N.20° E. and S.
 20° W. Desc.
 44.80 Intersect Uintah Indian Reservation bdy.
 Set a sandstone 18x10x5 ins., 12 ins.in the ground, for
 closing cor.of fract.secs.12 and 13, mkd.C C on E.,
 U I R.on W., 4 grooves on S. and 1 groove on E.face;
 from which
 A cedar 5 ins.dia.bears N.42°30'E. 71 lks.
 dist., mkd.T 4 S R 19 E S 12 B T
 A cedar 8 ins.dia.bears S.85°30'E. 54 lks.
 dist., mkd.T 4 S R 19 E S 13 B T
 From this cor.the 1/2 mile cor.bet.the 28th and 29th
 mile cors., which is a sandstone 11x9x4 ins.above
 ground, firmly set, and mkd. and witnessed as de-
 scribed by the surveyor general bears as follows:
 N.19° 15'E. 12.67 chs.to 1/2 mile stone bet.
 the 28th and 29th mile cors.
 Land mountainous.
 Soil gravelly;3rd rate.
 Timber cedar.
 Good grass.
 Mountainous or heavily timbered land 44.80 chs.

Subdivision of T. 4 S. R. 19 E.- Continued.

Chains.. Knowing that the line bet.secs.1 and 12 will intersect the bdy.of the Uintah Indian Reservation, I proceed to the corner of secs.1,6,7, and 12, on the E. bdy.of the township, set by me and heretofore described, and run

West on true line bet.secs.1 and 12,
Over mountainous land; through scattering cedar timber;
ascending.

12.90. Top of ridge, 300 ft.above sec.cor.bears N.25 E. and S.25°W. Descend.gradually.

15.45 Intersect E.bdy.of Uintah Indian Reservation.
Set a sandstone 18x9x7 ins., 12 ins.in the ground,for closing cor.of fract.secs.1 and 12, mkd. C.C on N.E., U L.R on W., with 5 grooves on S. and 1 groove on E.face; and raise a mound of stone 2 ft.base, 1 1/2 ft.high E.of cor.
From this corner the 1/2 mile cor.bet.the 29th and 30th mile cors.on the bdy., which is a sandstone 7x12x10 ins. above ground, firmly set and mkd.and witnessed as described by the surveyor general,bears as foll N. 24°E. 7.13.chs.to 1/2 mile cor.bet.the 29th and 30th mile cors.

Land mountainous.

Soil gravelly;3d rate. Timber cedar.

Good grass.

Mountainous land on 15.45 chs.

July 7, 1906.

Knowing that the line bet.secs.1 and 2 will intersect the bdy.of the Uintah Indian Reservation, I proceed to the corner of secs.1,2,35, and 36 on N.bdy.of Tp. which is a sandstone 5x10x7 ins.above ground, firmly

Subdivision of T. 4 S.. R. 19 E.- Continued.

Chains set and mkd. and witnessed as described by the surveyor general, where on

July 8, 1906: At 7 h.05m.a.m.l.m.t. I set off $40^{\circ} 30' N.$ on the lat.arc; $22^{\circ} 34' N.$ on the decl.arc; and determine a meridian with the solar; thence I run

S. $0^{\circ} 1' E.$ on true line bet.secs.1 and 2,

Over mountainous land; through scattering timber.

Asc.

1.00 Top of ridge, 10 ft. above sec.cor., bears NE. and SW.

10.00 Old road bears NE. and SW.

11.50 Wash 25 lks.wide, 6 ft.deep, in hollow, 200 ft.below ridge, course SW. Asc.

24.79 Intersect NE.bdy.of the Uintah Indian Reservation, Set a quartzite stone 16x12x9 ins., 11 ins.in the ground, for closing cor.of fract.secs.1 and 2, mkd, C C on N., U I R on S., with 1 groove on E.faces; from which

A cedar 24 ins.dia.bears N. 75° W. 257 lks.dist.

mkd. T 4 S R 19 E S 2 B T

No other trees within limits; raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high N.of cor.

From this cor.the $\frac{1}{2}$ mile cor.bet.the 30th and 31st mile cors.on the bdy., which is a sandstone 8x12x9 ins.above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears as follows:

S. $83^{\circ} 36' E.$ 45.94 chs.to $\frac{1}{2}$ mile cor.bet.the 30th and 31st mile cors.

Land mountainous.

Soil gravelly; 3rd rate.

Timber cedar.

Good grass.

Mountainous land 24.79 chs.

Subdivision of T. 4 S., R. 19 E.-Continued.

chains. Knowing that the line bet. secs. 2 and 3 will intersect the boundary of the Uintah Indian Reservation, I proceed to the corner of secs. 2, 3, 34, and 35 on N. bdy. of Tp., which is a sandstone 8x12x8 ins. above ground, firmly set and mkd. and witnessed as described by the surveyor general, and run,

S.0° 2' E. on a true line bet. secs. 2 and 3, over mountainous land; through heavy timber.

Asc.

1.00 Top of ridge 10 ft. above sec. cor., bears E. and W.

Desc.

15.82 Intersect NE. bdy. of Uintah Indian Reservation, Set a limestone 16x10x9 ins., 11 ins. in the ground, for closing cor. of secs. 2 and 3, mkd. C C on N., U I R on S, 1 groove on N. and 2 grooves on E. faces; from which

A cedar 10 ins. dia. bears N. 54° E. 174 lks. dist.

mkd. T 4 S R 19 E S 2 B T

A cedar 8 ins. dia. bears N. 49° W. 13 lks. dist.,

mkd. T 4 S R 19 E S 3 B T

From this corner the 31st mile cor. on the reservation bdy., which is a sandstone 10x9x9 ins. above ground, firmly set and mkd. and witnessed as described by the surveyor general bears as follows:

N. 83° 36' W. 55.58 chs. to 31st. mile cor.

Land mountainous.

Soil clay loam; 2nd rate.

Timber cedar.

Good grass.

Mountainous or heavily timbered land 15.82 chs.

July 8, 1906.

-19-

General Description T. 4 S., R. 19 E.

This fractional township is rough and mountainous; and the soil is generally clay and gravelly; 3d rate.

In the southern part of the township the scrubby cedar timber is scattering and gradually gets heavier in the northern part of the township.

The southern part of the township is covered with a dense growth of sagebrush.

There is no water in the township. There is no mineral in the township.

There are no settlers in the township.

There is an abundant growth of grass which affords excellent winter sheep grazing.

John R Stewart
U.S. Deputy Surveyor.

July 8, 1906.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____

_____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____

showing the respective capacities in which they acted:

For final affidavits see book "Z¹⁵" Tp. 2 N., R. 20 E., Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____

_____, United States Deputy Surveyor, in surveying all those parts or portions of the _____

of the _____

meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

For final affidavits see book "Z¹⁵" Tp. 2 N., R. 20 E., Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

Subscribed and sworn to before me this _____

day of _____, 190 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from _____, United States Surveyor General for _____, bearing date of _____ day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of _____.
For final affidavits see book "Z15" pp 211, 212, 20 E.

_____ of the _____ meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 1906

The foregoing field notes of the survey of the Subdivisional lines of Township No. 4 South, Range No. 19 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart
under their contract No. 295, dated April 30, 1906, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas C. Howell
United States Surveyor Gen.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor Gen.

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BOOK A-335

I.

FILED

SEP 19 1906

FIELD NOTES

OF THE retracement
OF THE SURVEY OF THE

NORTH BOUNDARY

of

Township No. 4 South, Range No. 19 East,

and

PART OF UNTAH INDIAN RESERVATION BOUNDARY

in

Township No. 4 South, Range No. 19 East,

Of the Salt Lake Base and Meridian,

STATE OF UTAH

AS SURVEYED BY

John R. Stewart and Scott P. Stewart, United States Deputy Surveyors,
their
~~Under his~~ Contract No. 295, dated April 30, 1906., 1906.
retracement
~~Survey~~, commenced July 8, 1906., 1906.
retracement
~~Survey~~, completed July 9, 1906., 1906.

6-101
R. R. Stewart
S. P. Stewart

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher Chainman

Leo A. Snow Chainman

Paul Ashworth Moundman

Quinby Stewart Moundman

Alden Oscar Gledhill Axman

John W. Pickering Axman

John R. Llewellyn Flagman

For preliminary affidavits see book "B" Tp.4 S., R. 20 E.

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Volume

#

R0335

BOOK A-335

INDEX DIAGRAM.

Township 4 South, Range 19 East

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31	32	33	34	35	36	37	38	39	30

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of , Chain

Subscribed and sworn to before me this }
day of , 190 } 190



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of , Mound.

Subscribed and sworn to before me this }
day of , 190 } 190



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the survey of , Ax.

Subscribed and sworn to before me this }
day of , 190 } 190



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of , Flag.

Subscribed and sworn to before me this }
day of , 190 } 190



33

1.

Retracement North boundary T.4 S., R.19 E.

Survey commenced July 8, 1906, and executed with a Young and Sons light mountain transit No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general, for Utah, on June 1, 1906.

At the closing cor. of secs. 3 and 34, on N. bdy. Tp., latitude $40^{\circ} 30' 24''$ N., longitude $109^{\circ} 47' 05''$ W., I set off $40^{\circ} 30' N.$, on the lat. arc; $22^{\circ} 32' N.$, on the decl. arc; and at 2 h. 05m p.m., l.m.t., I determine a meridian with the solar at the closing cor. of secs. 3 and 34, which is a post, $4 \times 4 \times 2$ ft. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

Note: For complete test of instrument see notes of E. bdy. T.5 S., R.19 E.

Note: On account of closings made in the Subdivision of T.4 S., R.19 E., I deem it necessary to retrace the north bdy. of T.4 S., R.19 E..

Also a part of the Uintah Indian Reservation bdy. in said Tp.

Therefore from the above described cor. I run East, on retracement line bet. secs. 3 and 34.

17.00 The $\frac{1}{4}$ sec. cor. bet. secs. 3 and 34, which is a sandstone, $10 \times 16 \times 12$ ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears S.56 lks. dist.

57.17 The cor. of secs. 2, 5, 34, and 35, which is heretofore described, bears S.188 lks. dist. ✓
The course of this line is therefore S.88°07'E. 57.20 chs.

Retracement North line T 4 S R 19 E -Continued

East, on retrace line bet. secs. 2 and 35.

41.00 The $\frac{1}{4}$ sec. cor. bet. secs. 2 and 35, which is a sandstone, 5x8x7 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears S.12 lks. dist.

82.40 The cor. of secs. 1, 2, 35, and 36, which is heretofore described, bears S.24 lks. dist.

The course of this line is therefore S.89°50'E., 82.40 chs.

East, on a retrace line bet. secs. 1 and 36.

41.02 The $\frac{1}{4}$ sec cor. bet. secs. 1 and 36, which is a cobblestone 5x10x7 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general, bears N.29 lks. dist.

81.49 The cor. of Tps. 3 and 4 S., R.19 E., heretofore described, bears N.58 lks. dist.

The course of this line is therefore N.89°35'E.

July 8, 1906.

*John R. Stewart
U. S. Deputy Surveyor*

Retracement Part of E. Rdy. Uintah Indian Reservation

- Chains. July 9, 1906: At 7 h.05 m.a.m.l.m.t. I set of $40^{\circ} 29'$ N.on the lat.arc; $22^{\circ} 27'$ N.on the decl.arc; and determine a meridian with the solar, at the angle cor. on Uintah Indian Reservation bdy., which is S. 24° W. 54.67 chs.from closing cor.on E.bdy.T. 4 S., R. 19 E.. This cor.is a sandstone 11x14x10 ins.above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- Thence I run
 $S.19^{\circ} 15'W.$ on retracement line along the 30th mile on bdy.
- 16.20 The 29th mile cor.on the Reservation bdy., which is a sandstone 10x12x8 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- Thence along 29th.mile,
 $S.19^{\circ} 15'W.$
- 39.87 The 1/2 mile cor.bet.the 28th and 29th.mile.cors., heretofore described.
- 52.54 The closing cor.of secs.12.and 13, this survey, heretofore described.
- 62.07 Angle cor.on the bdy., which is a sandstone 8x12x12 ins.above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
- Thence S. $55^{\circ} 45'W.$
- 81.90 The 28th mile cor.on the bdy., which is a sandstone 8 x12x10 ins.above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
-
- 16.59 Thence S. $55^{\circ} 45'W.$ along 28th mile,
Angle cor.on bdy., which is a sandstone 10x12x10 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

Retracement Part of E.Bdv.Uintah Indian Reservation.

Chains. Thence S.31° W.
 21.48 The closing cor.of secs.13 and .14, heretofore described.
 36.49 The 1/2 mile cor.bet.the 27th and 28th mile cors., which
 is heretofore described.
 75.59 The closing cor.of secs.14 and 23, heretofore described.
 76.39 The 27th mile cor.on the Reservation bdy., heretofore
 described.

Thence along the 27th mile,
 S.12° 30' E.

39.80 The 1/2 mile cor.bet.the 26th and 27th mile cors. on the
 bdy., which is a sandstone .6x12x8 ins.above ground,
 firmly set and mkd..and witnessed as described by the
 surveyor general.

Thence S.18° W.

79.64 The 26th mile cor.on the bdy.heretofore described.

Thece along the 26th mile,

South 18° W.

2.51 The closing cor.of secs23 and 26, heretofore descrobed.
 40.01 The 1/2 mile cor.bet.the 25th and 26th mile cors., which
 is a sandstone 10x14x10 ins.above ground, firmly set,
 and mkd.and witnessed as described by the surveyor
 general.
 80.00 The 25th mile cor.on the bdy.heretofore described.

Thence along 25th mile,

South 17° 48' W.

6.85 The closing cor.of secs.26 and 35, heretofore described.
 39.95 The 1/2 mile cor.bet.the 24th and 25th mile cor.on the

-5-

Retracement Part of E.Bdy.Uintah Indian Reservation.

Chains. bdy., which is a sandstone 6x12x8 ins.above ground,
firmly set, and mkd. and witnessed as described by
the surveyor general, bears N.72° W. 14 lks.dist.

79.87 The 24th mile cor.on bdy.heretofore described, bears
N.72° W.28lks.dist.

Therefore the course of this line is S.17° 48'W. and
distance 79.87 chs.

July 9, 1906.

John P Stewart
U. S.Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of
 owing the respective capacities in which they acted:

....., *Chainman.*
 For final affidavits see book "Z" ⁴ Tp. 3 N., R. 22 E., *Chainman.*
 , *Moundman.*
 , *Moundman.*
 , *Axman.*
 , *Axman.*
 , *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
 United States Deputy Surveyor, in surveying all
 those parts or portions of the
 of the
 meridian, of which are represented
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 corner monuments established, according to the instructions furnished by the United States Surveyor
 General for
 For final affidavits see book "Z" ⁴ Tp. 3 N., R. 22 E., *Chainman.*

....., *Chainman.*
 , *Moundman.*
 , *Moundman.*
 , *Axman.*
 , *Axman.*
 , *Flagman.*

scribed and sworn to before me this }
 day of , 190 }

○○○○○
○ SEAL ○
○○○○○

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor solemnly swear that, in pursuance of a contract received from United States Surveyor General for _____, bearing date of _____ day of _____, 190_____, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of _____.

For final affidavits see book "Z⁴" Tp. 3 N., R. 22 E.

_____ of the _____ meridian, in the _____ of _____, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____ and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 1906.

The foregoing field notes of the survey of _____ retracement of part of the North Boundary of Township No. 4 South, Range No. 19 East, and part of East Boundary of the Uintah Indian Reservation in Township No. 4 South, Range No. 19 East of the Salt Lake Base and Meridian, Utah.

executed by Scott P. Stewart and John R. Stewart
their 295 under his contract No. _____, dated April 30, 1906, having critically examined, and the necessary corrections and explanations made, the said field notes, and retracements surveys they describe, are hereby approved.

Thomas Marshall
United States Surveyor Gen

I certify that the foregoing transcript of the field notes of the above-described surveys in _____ has been correctly copied from the original notes on file in this office.

United States Surveyor Gen

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575
BOOK A 335

J.

FILED
SEP 10 1906

FIELD NOTES

OF THE SURVEY OF THE

EAST BOUNDARY

of

Township No. 3 South, Range No. 18 East,

of the West Lake Base and Meridian,
State of Ill.

AS SURVEYED BY

Scott J. Stewart and John R. Stewart, United States Deputy Surveyors

Under ~~the~~ Contract No. 126, dated April 30, 1906, \$38

Survey commenced July 10, 1906, 1906

Survey completed July 13, 1906, 1906

Augt 6 A.M. 1906
Augt 21 1906

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher	Chainman
Iec A. Snow	Chainman
Paul Ashworth	Moundman
Quinby Stewart	Moundman
Alden Oscar Gledhill	Axman
John W. Pickering	Axman
John R. Llewellyn	Flagman

For preliminary affidavits see book "A" Tp.4 S., R. 20 E.

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Volume

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R0335

BOOK A-335

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, and do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the surveying, , Chain

Subscribed and sworn to before me this }
day of , 190 }



We, and do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the surveying, , Mound

Subscribed and sworn to before me this }
day of , 190 }



We, and do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners, and other duties, according to instructions given us, to the best of our skill and ability, in the surveying, , Ax

Subscribed and sworn to before me this }
day of , 190 }



I, do solemnly swear that I will well and faithfully perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the surveying, , Flag

Subscribed and sworn to before me this }
day of , 190 }



E.bdy of T 5 S .R 19 E

Survey commenced July 10, 1906, and executed with a Young and Sons light mountain transit., No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs;

The instrument was examined, tested on the meridian, at Salt Lake City, found correct, and was approved by the surveyor general, for Utah, on June 1, 1906.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications made during p.m. and a.m. hours, with a meridian established by Polaris observation; I proceed as follows:

At the standard cor. of Tps. 5 S., Rs. 19 and 20 E., which is a sandstone, 10x14x12 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general, latitude $40^{\circ}19'59''$ N., longitude $108^{\circ}44'15''$ W., I set off $40^{\circ}20'$ N., on the lat. arc; $28^{\circ}17'$ N., on the decl. arc; and at 4 h 5 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

July 10, 1906.

July 11, 1906 At 6 h 1.7 m a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with the Manual, and mark a point in the line thus determined, on a peg driven in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ}34'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.36 ins. east of the

Eubdy.T.5 S.,R.19 E.-Continued.

- Chains mark determined with the solar.
 At 7 h 5 m a.m., l.m.t., I set off $40^{\circ}20'N.$, on the lat. arc; $22^{\circ}13'N.$, on the decl. arc; and determine a meridian with the solar, and mark a point thereof by a cross on the stone already set 5.00 chs. North of the ccr.; this mark falls 0.43 ins. east of the meridian established by Polaris observation.
 The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0'19''$ west and $0'23''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.
 The magnetic bearing of the meridian at 7 h 30 m a.m., is N. $16^{\circ}15'W.$, the angle thus determined gives the mag. decl. $16^{\circ}15'E.$
 From the above described cor. I run
 North, on random line along E.bdy.T.5 S., R.19 E., setting temp. $\frac{1}{2}$ sec. and sec. cors. at intervals of 40.00 chs. and at 481.16 chs. intersect S.bdy.T.4 S., R.20 E., 21.33 chs. East of the cor. of Tps.4 and 5 S., Rs. 19 and 20 E. The falling being out of limits I abandon the random line and beginning at the cor. of Tps.4 and 5 S., Rs. 19 and 20 E., heretofore described.
 July 11, 1906.
 July 12, 1906: At 7 h 5 m a.m., l.m.t., I set off $40^{\circ}25'N.$, on the lat. arc; $22^{\circ}5'N.$, on the decl. arc; and determine a meridian with the solar, at the cor. of Tps.4 and 5 S., Rs. 19 and 20 E.
 Thence I run
 South, on true line along E.bdy.T.5 S., R.19 E. bet. secs.

Feb. 25, 1910, continued.

1 and 6.

Desc. Over mountainous land; through scattering undergrowth of sage brush.

4.15 Foot of abrupt descent, bears NE and SW.

Desc. gradually.

15.60 Old road, bears E. and W.

28.70 Wash, 25 lbs. wide, 6 ft. deep, course W.

41.10 Set a sandstone, 14x10x8 ins., 9 ins. in the ground, for $\frac{1}{3}$ sec. cor. mkd. $\frac{1}{2}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

57.40 Wash, 50 lbs. wide, 3 ft. deep, course S. 30° E.

60.16 Begin abrupt ascent, bears NW and SE.

65.25 Top of spur, 50 ft. above wash, bears E. and W.

Desc.

66.80 Bottom of hollow, 100 ft. below spur, course E.

Asc.

71.16 Top of spur, 100 ft. above hollow, bears E. and W.

Desc.

77.10 Foot of steep descent, bears NE and SW.

Descent gradually.

81.10 Set a quartzite stone, 14x9x8 ins., 9 ins. in the ground, for cor. of secs. 1, 6, 7, and 12, mks. with 5 notches on S. and 1 notch on N. edges; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, gray and sandy loam; 2nd rate.

Undergrowth, sage brush and shadscales.

Good grass for grazing.

Mountainous land, 81.10 chs.

South, on true line bet. secs. 7 and 12.

Over mountainous land; through dense sage brush.

Desc. gradually.

E.bdy.T.5 S.,R.19 E.-Continued.

Chains

- 3.00 Wash, 50 lks. wide, 6 ft. deep, in hollow, course SW.
Asc.
- 18.00 Enter ledges, bears E. and W.
- 24.00 Leave ledges, bears E. and W., on top of ridge, 300 ft. above sec.cor., bears E. and W. Desc.
- 25.75 Bottom of hollow, 50 ft. below ridge, course W. Asc.
- 27.50 Top of spur, 300 ft. above hollow, bears E. and W.
Desc.
- 28.00 Enter ledges, bears E. and W.
- 33.00 Leave ledges, at foot of steep descent, bears E. and W.
Desc. gradually.
- 40.00 Set a sandstone, 18x7x6 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec.cor.. mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 71.50 Bottom of hollow, 300 ft. below spur, course W.
Asc.
- 78.50 Top of ridge, 100 ft. above hollow, bears E. and W.
Desc.
- 79.00 Foot of steep descent, bears E. and W.
Desc. gradually.
- 80.00 Set a quartzite stone, 18x12x6 ins., 12 ins. in the ground, for cor. of secs. 7, 12, 13, and 18, mkd. with 2 notches on N. and 4 notches on S. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
Land, mountainous.
Soil, clay loam; 2nd rate.
No timber.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth,
80.00 chs.
July 12, 1866: At the noon hour the sky is overcast and solar observations are impossible.

" bdy T 5 S R 19 E -Captained

- Chains South, on true line bet. secs. 13 and 18.
Over mountainous land; through dense sage brush.
Desc. gradually.
10.25 Wash, 20 lks. wide, 4 ft. deep, course SW.
14.20 Vernal-White Rocks road, bears E. and W.
32.25 Wash, 50 lks. wide, 6 ft. deep, course SW.
Asc.
40.00 Set a sandstone, 14x8x6 ins., 9 ins. in the ground, for
½ sec. cor.. mkd. & on W. face; and dig pits, 18x18x12 ins.
N. and S. of stone, 3 ft. dist.; and raise a mound of earth,
5½ ft. base, 1½ ft. high, W. of cor.
41.75 Rocky spur, 200 ft. above wash, bears E. and W.
Desc.
58.25 Wash, 50 lks. wide, 6 ft. deep, in hollow, 100 ft. below
spur, course S. 30° E.
Asc.
72.75 Top of spur, 100 ft. above hollow, bears E. and W.
Desc.
76.70 Wash, 30 lks. wide, 6 ft. deep, in hollow, 100 ft. below spur,
course SE.
78.20 Old road, bears NW and SE.
80.00 Set a sandstone, 16x11x5 ins., 11 ins. in the ground, for
cor. of secs. 13, 18, 19, and 24, mkd. with 3 notches on N.
and S. edges; and raise a mound of stone, 2 ft. base, 1½ ft.
high, W. of cor.
Land, mountainous.
Soil, sandy and clay; 2nd rate.
No timber.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth,
80.00 chs.

E. bay T. 5 S., R. 10 E. -Continued.

Chains	South, on true line bet. secs. 19 and 24. Over mountainous land; through dense sage brush. Asc.
.25	Top of spur, 25 ft. above sec. cor., bears N. 30° E. and S. 60° W. Desc.
7.50	Old road, bears N. 30° E. and S. 30° W.
15.75	Old road, bears N. 30° E. and S. 30° W.
24.00	Wash, 50 lks. 6 ft. deep, course SE. in hollow, course SE; asc.
35.25	Wash, 20 lks. wide, 4 ft. deep, course SE.
40.00	Set a sandstone, 16x8x6 ins., 11 ins. in. the ground, for sec. cor.. mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
44.50	Top of spur, 100 ft. above hollow, bears E. and W. Desc.
47.00	Bottom of hollow, 150 ft. below spur, course E. Asc.
61.00	Top of rocky spur, 300 ft. above hollow, bears NW and SW. Desc.
67.50	Ravine, 500 ft. deep, course SE. Asc.
74.00	Top of ascent, 300 ft. above ravine, bears NW and SE. Thence Over mesa.
80.00	Set a sandstone, 16x8x8 ins., 11 ins. in. the ground, for cor. of secs. 19, 24, 25, and 30, mkd. with 4 notches on N. and 2 notches on S. edges; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Land, mountainous. Soil, sandy and gravelly; 2nd rate. No timber. Undergrowth, sage brush. Good grass. Mountainous land, or land covered with dense undergrowth, 80.00 chs.

E. bdy. T. 5 S., R. 18 E. -Continued.

Chains

July 13, 1906: At 7 h 5 m a.m., l.m.t., I set off $40^{\circ} 22' N.$, on the lat. arc; $21^{\circ} 57' N.$, on the decl. arc; and determine a meridian, with the solar, at the cor. or secs. 19, 24, 25, and 30.

Thence I run

South, on true line bet. secs. 25 and 30.

Over level mesa; through dense sage brush.

11.00 Leave mesa, bears NW and SE.

Desc.

20.00 Swale, 500 ft. below mesa, course W.

Asc.

34.00 Enter ledges, bears E. and W.

36.50 Ledge, 50 ft. high, bears E. and W.

38.50 Leave ledges, bears L. and W.

40.00 Set a sandstone, $18 \times 8 \times 5$ ins., 12 ins. in the ground, for a sec. cor., mkd. $\frac{1}{2}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

73.50 Enter ledges, bears E. and W.

75.25 Top of ridge, 300 ft. above swale, bears E. and W.

Desc. abruptly.

78.00 Foot of steep descent, bears E. and W.

Leave ledges, bears E. and W.

Thence desc. gradually.

80.00 Set a sandstone, $18 \times 8 \times 6$ ins., 12 ins. in the ground, for cor. of secs. 25, 30, 31, and 36, mkd. with 5 notches on N. and 1 notch on S. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, clay and gravelly; 3rd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

R.hdr T 5 R. R 19 E. Continued

Chains

- South, on true line bet. secs. 31 and 36.
 Over mountainous land; through dense sage brush.
 Desc. gradually.
- 8.00 Bottom of hollow, 100 ft. below sec. cor., course SE.
 Asc.
- 12.00 Top of rocky spur, 200 ft. above hollow, bears E. and W.
 Desc.
- 36.00 Wash, 50 lks. wide, 4 ft. deep, in hollow, 150 ft. below spur,
 course SW.
 Asc.
- 40.00 Set a sandstone, 17x12x5 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; dig pits, 16x18x12 ins., N. and
 S. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft.
 base, $1\frac{1}{2}$ ft. high, W. of cor.
- 57.20 Top of ridge, 150 ft. above hollow, bears E. and W.
 Desc. over ledges.
- 59.00 Leave ledges, bears E. and W.
- 80.00 Intersect 1st Standard Parallel South, 21,33 chs. West of
 the standard cor. of Tps. 5 S., R. 19 and 20 E., heretofore
 described.
 Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for
 Standard cor. of Tps. 5 S., R. 19 and 20 E., mkd. S C on N.,
 5 S. on N., 19 E. on W., 20 E. on E., with 6 grooves on N.,
 E. and W. faces; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$
 ft. high, N. of cor.
- Note: I destroy all marks on the old standard cor., but
 leave it standing for a witness to the closing cor. from
 the South.
- Land, mountainous.
- Soil, gravelly; 3rd rate.
- No timber.
- Undergrowth, sage brush.

E.bdv $\frac{1}{2}$ T.5 S., R.19 E.-Continued.

Chains Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

July 13, 1906: At this cor. I set off 21° 54' N., on the decl.
arc; and at 0 h 5 m p.m., l.m.t., I observe the sun on
the meridian, the resulting lat. is 40° 20' N., which is the
proper lat. nearly.

July 13, 1906.

Boundaries of T.5 S., R.19 E.

Latitude, departures, and closing errors.

Line designated.	Course	dist- ance	Latitudes		Departures	
			N. chs.	S. chs.	E. chs.	W. chs.
E.bdy.U.I.Reservation	N.23° W.	174.31	160.45			68.10
E.bdy.U.I.Reservation	N.25° E.	80.38	72.85		33.97	
E.bdy.U.I.Reservation	N.35° E.	80.00	65.53		45.89	
E.bdy.U.I.Reservation	N.39° 56' E.	160.44	123.02		102.99	
E.bdy.U.I.Reservation	N.39° 30' E.	40.00	30.86		25.44	
E.bdy.U.I.Reservation	N.11° W.	29.55	29.01			5.64
N.bdy.T.5 S., R.19 E.	East	159.40			159.40	
E.bdy.T.5 S., R.19 E.	South	481.16		481.16		
1st Standard Par.S.	S.89° 55' W.	294.24		.45		294.24
Convergency					.37	
Totals			481.72	481.59	368.06	367.98
Error in lat.			481.59		367.98	
Error in dep.					.08	

GENERAL DESCRIPTION.

This township is low rough and broken with the exception
of a mesa in the central part. It should be subdivided.

July 13, 1906.

John R Stewart
U.S. Deputy Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**LIST OF NAMES.**

A list of the names of the individuals employed by,

..... United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of

owing the respective capacities in which they acted:

For final affidavits see book "Z¹¹" Tp.3 N., R. 20 E. Chas. ...
 Chas.
 M.
 Montebello
 Az.
 Az.
 P.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted

..... United States Deputy Surveyor, in surveying all
those parts or portions of the

..... of the
meridian, of which are represented
the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
general for

For final affidavits see book "Z¹¹" Tp.3 N., R. 20 E. Chas.
 Chas.
 M.
 Montebello
 Az.
 Az.
 P.

described and sworn to before me this

day of 190.....

.....
.....

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor,
 do solemnly swear that, in pursuance of a contract received from
 United States Surveyor General for bearing date of
 day of 190 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of United States, surveyed all those parts or portions of

For final affidavits, see book "Z" Tp. 3 N., R. 20 E.

..... of the
 meridian, in the of which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
 this day of 190 }

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0 SEAL 0
000000

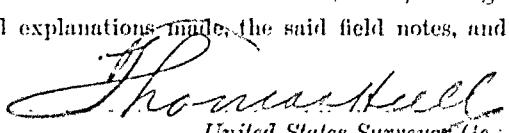
APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 1906.

The foregoing field notes of the survey of the East Boundary of Township No. 5 South, Range No. 19 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart
 under contract No. 295, dated April 30, 1906, having
 critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.


Thomas H. Stewart
United States Surveyor Gen.

I certify that the foregoing transcript of the field notes of the above-described surveys in
 has been correctly copied from the original notes on file in this office.

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BOOK A-335

K.

FILED

SEP 19 1906

FIELD NOTES

RETRACIMENT
OF THE SURVEY OF THE

FIRST STANDARD PARALLEL SOUTH,

through

Range 18 East,

of the Salt Lake Base and Meridian,

State of Utah.

AS SURVEYED BY

Scott P. Stewart and John R. Stewart, United States Deputy Surveyors

under their Contract No. 295 dated April 30, 1906, \$200.

retracement

Survey commenced July 13, 1906, \$100

retracement

Survey completed July 14, 1906, \$100

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NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher.....Chainman.....

Leo A Snow.....Chainman.....

Paul Ashworth.....Chainman.....

Quinby Stewart.....Chainman.....

Alden Oscar Gledhill.....Moundman.....

John W. Pickering.....Axman.....

John R. Llewellyn.....Flagman.....



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Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, Harvey Fletcher, Leo A. Snow, Paul Ashworth and Quinby Stewart, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the First Standard Parallel South through Range 19 East of Salt Lake Base and Meridian Utah.

Harvey Fletcher, Chainm.

Leo A. Snow, Chainm.

Paul Ashworth, Chainm.

Quinby Stewart, Chainm.

John R. Stewart

U.S. Deputy Surveyor.

Subscribed and sworn to before me this 7th day of June, 1906.



WE, Alden Oscar Gledhill and John W. Pickering, do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us to the best of my skill and ability, in the First Standard Parallel South through Range 19 East of Salt Lake Base and Meridian Utah.

Alden Oscar Gledhill, Moundm.

Subscribed and sworn to before me this 7th day of June, 1906.



John R. Stewart
U.S. Deputy Surveyor.

WE, John W. Pickering and John R. Stewart, do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us to the best of my skill and ability, in the First Standard Parallel South through Range 19 East of Salt Lake Base and Meridian Utah.

John W. Pickering, Axm.

Subscribed and sworn to before me this 7th day of June, 1906.



John R. Stewart
U.S. Deputy Surveyor.

I, John R. Llewellyn, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the retracement of the First Standard Parallel South through Range 19 East of Salt Lake Base and Meridian, Utah.

John R. Llewellyn, Flagm.

Subscribed and sworn to before me this 7th day of June, 1906.



John R. Stewart
U.S. Deputy Surveyor.

Retracement 1st Standard Parallel south through Range 17 E

Chs. Survey commenced July 15, 1906, and executed with a Young and Sons light mountain transit, No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the lat. and decl. arcs.

The instrument was examined, tested on the meridian at Salt Lake City, Utah, and found correct, and was approved by the surveyor general for Utah, on June 1, 1906.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian established by Polaris observation, I proceed as follows:

At the standard cor. of Tps. 5 S., Rs. 19 and 20. E., latitude $40^{\circ} 19' 59''$ N., longitude $108^{\circ} 44' 14''$ W., I set off $40^{\circ} 20'$ N., on the lat. arc; $21^{\circ} 53'$ N., on the decl. arc; and at 4 h 5 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor.

July 13, 1906.

July 14, 1906: At 0 h 0.5 m a.m. l.m.t., I observe Polaris at eastern elongation in accordance with the Manual, and mark a point thereof on a peg driven in the ground, 5.00 chs. N. of the cor.

At 6 h 30 m a.m., l.m.t., I lay off the azimuth of Polaris $1^{\circ} 34'$ to the west, and mark the meridian thus determined, by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.4 ins. east of the mark determined with the solar.

At 7 h 6 m a.m., l.m.t., I set off $40^{\circ} 20'$ N., on the lat. arc;

Retracement 1st Standard Parallel South through Range 19 E

Chains	<p>$21^{\circ}48'N.$, on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.4 ins. east of the meridian established by Polaris observation; The solar apparatus by p.m. and a.m. observations defines positions for meridians respectively about $0^{\circ}21''$ west and $0^{\circ}21''$ east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.</p> <p>The magnetic bearing of the meridian at 7 h 30 m a.m. is N. $16^{\circ}15'W.$, the angle thus determined gives the mag. decl. $16^{\circ}15'E.$</p> <p>Note: Before beginning this retracement I determine from flags set at the 'old' Standard cor., the course to be S. $89^{\circ} 55'W.$</p> <p>From the standard Tp.cor. above described I run S$89^{\circ}55'W.$ retracement line along N. side sec. 36.</p> <ul style="list-style-type: none"> Over rolling and broken hills and hollows. Through dense sage brush and shadscales. Desc. gradually. <p>19.20 The standard $\frac{1}{4}$ sec. cor., which is a sandstone, $12 \times 8 \times 4$ ins. lying on top of ground, which I destroy, bears S. 8 lks. dist.</p> <p>25.00 Hollow, 25 ft. below cor., course S. $80^{\circ}E.$ Asc.</p> <p>Difference bet. measurements of 40.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,</p> <ul style="list-style-type: none"> By 1st set, 39.98 chs., By 2nd set 40.02 chs.; the mean of which is <p>40.00 Set a sandstone, $18 \times 11 \times 5$ ins., 12 ins. in the ground, for standard $\frac{1}{4}$ sec. cor., mkd. S. C $\frac{1}{4}$ on N. face; dig pits, $18 \times 18 \times 12$ ins. E. and W. of stone, 5 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.</p> <p>Difference bet. measurements of 59.70 chs., by two sets of chainmen, is 6 lks.; position of middle point,</p> <ul style="list-style-type: none"> By 1st set, 59.67 chs., By 2nd set, 59.73 chs., the mean of which is
--------	--

- Retracement 1st Standard Parallel South, Range 19 E.-

Chains

59.70 The standard cor. of secs. 35 and 36, which is a sandstone, 6x8x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general. I destroy all marks on this cor.

Difference bet. measurements of 80.00 chs., by two sets of chainmen, is 6 lks.; position of middle point,

By 1st set, 79.97 chs.,

By 2nd set 80.03 chs.; the mean of which is

80.00 Set a sandstone, 18x11x5 ins., 12 ins. in the ground, for standard cor. of secs. 35 and 36, mkd. S C on N., with 5 grooves on W. and 1 groove on E. faces; dig pits, 24x18x12 ins. crosswise on each line, E. and W. 3 ft., and N. of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, N. of cor.

Land, mountainous.

Soil, clay; 2nd rate.

No timber.

Undergrowth, sage brush and shadscales.

No grass.

Mountainous land, or land covered with dense undergrowth, 80.00 chs.

S. 88° 55' W., on retracement line along N. side sec. 35.

Over mountainous land; through dense sage brush.

Asc. gradually.

18.20 Find no trace of the old standard & sec. cor.
Difference bet. measurement of 40.00 chs., by two sets of chainmen, is 2 lks., position of middle point,

Retracement 1st Standard Parallel South through Range 10 E -Cont'd

- Chains By 1st set, 59.99 chs.
- By 2nd set, 40.01 chs.; the mean of which is
- 40.00 Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for standard cor. of secs. 34 and 35, mkd. S C on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- Difference bet. measurements of 59.30 chs.; by two sets of chainmen, is 6 lks.; position of middle point,
- By 1st set, 58.27 chs.,
- By 2nd set, 59.33 chs.; the mean of which is
- 59.30 The old standard cor. of secs. 34 and 35, which is a sandstone 8x10x4 ins. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.
I destroy all marks on said cor.
- 62.00 Begin abrupt ascent over ledges, bears N. and S.
- 64.00 Sandstone ledge, 40 ft. high, bears N. and S.
- 66.00 Top of ridge, 300 ft. above sec. cor., bears N. 20° E. and S. 20° W.
- Desc.
- Leave ledges, bears N. 20° E. and S. 20° W.
- Difference bet. measurements of 80.00 chs., by two sets of chainmen, is 10 lks.; position of middle point,
- By 1st set 79.95 chs.
- By 2nd set, 80.05 chs.; the mean of which is
- 80.00 Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for standard cor. of secs. 34 and 35, mkd. S C on N., with 2 grooves on E. and 4 grooves on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.
- Land, mountainous.
- Soil, clay loam and rocky; 2nd and 4th rate.
- No timber.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth, 80.00 chs.

Retracement 1st Standard Parallel South, through Range 19 E. contd.

Chains July 14, 1906: At this cor. I set off $23^{\circ}45'N.$, on the decl. arc; and at 0 h 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ}20'N.$, which is the proper lat. nearly.

S. $89^{\circ}55'W.$, on retracement line along S. side sec. 34.

Over mountainous land; through dense sage brush.

Desc.

3.25 Ledge, 20 ft. high, bears N. and S.

9.50 Hollow, 300 ft. below sec. cor., course NW.

Asc.

19.55 The old $\frac{1}{4}$ sec. cor. I destroy the cor.

Difference bet. measurements of 40.00 chs., by two sets of chainmen, is 4 lks.; position of middle point,

By 1st set, 39.98 chs.;

By 2nd set, 40.02 chs., the mean of which is

40.00 Set a sandstone, 16x9x5 ins., 11 ins. in the ground, for standard $\frac{1}{4}$ sec. cor. mkd. S $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

Difference bet. measurements of 59.60 chs., by two sets of chainmen is 4 lks.; position of middle point,

By 1st set, 59.58 chs.;

By 2nd set, 59.62 chs., the mean of which is

59.60 The old standard cor. of secs. 33 and 34, which is a sandstone, 10x8x6 ins., above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

I destroy all marks on the cor.

76.00 Top of ridge, 100 ft. above hollow, bears NE and SW.

Desc.

Difference bet. measurements of 80.00 chs., by two sets of chainmen, is 8 lks.; position of middle point,

Retracement of 1st Standard Parallel south through Range 19 E -Cont.

		Chains	By 1st set 79.96 chs.,
			By 2nd set, 80.04 chs.; the mean of which is
80.00		Set a sandstone, 18x11x5 ins., 12 ins. in the ground, for standard cor. of secs. 33 and 34, mkd. S C on N., with 3 grooves on E. and W. faces; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.	
		Land, mountainous.	
		Soil, gravelly and sandy ; 2nd and 3rd rate.	
		No timber.	
		Undergrowth, sage brush.	
		Good grass for grazing.	
		Mountainous land, or land covered with dense undergrowth,	
80.00		80.00 chs.	
		S. 89° 55' W., on retracement line along S. side sec. 33.	
		Over mountainous land; through dense sage brush.	
		Desc. gradually.	
20.48		The old standard $\frac{1}{4}$ sec. cor.	
		I destroy the cor.	
		Difference bet. measurements of 40.00 chs., by two sets of chainmen, is 2 lks.; position of middle point,	
		By 1st set, 39.99 chs.;	
		By 2nd set, 40.01 chs.; the mean of which is	
40.00		Set a sandstone, 20x14x5 ins., 15 ins. in the ground, for standard S C.	
		$\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, N. of cor.	
		Difference bet. measurements of 54.24 chs.; by two sets of chainmen, is 4 lks.; position of middle point,	
		By 1st set, 54.22 chs.	

ment of First Standard Parallel South through Range 19 E.-Contd

Chains By 2nd set, 54.26 chs., the mean of which is
 54.24 Intersect E.bdy. Uintah Indian Reservation, at the closing standard cor. of Tps. 5 S., R. 19 E., which is a sandstone, 6x14x5 ins., above ground, firmly set, and mkd. as described by the surveyor general, I remark the cor., with S C on N., C C on E., U I R on W., with 6 grooves on N. and S., and 4 grooves on E. faces; dig pits, crosswise on each line. 30x24x12 ins., N. and S. of stone, $\frac{1}{4}$ ft. and L. of stone, 8 ft. dist.; and raise a mound of earth, 5 ft. base, $2\frac{1}{2}$ ft. high, E. of cor.

From this cor. the 17th mile cor. on the bdy., bears as follows:

N. 23° W., 15.37 chs., to mile stone, No. 17.

Land, mountainous.

Soil, gravelly; 3rd rate.

No timber.

Undergrowth, sage brush.

Good grass.

Mountainous land, or land covered with dense undergrowth, 54.24 chs.

Note: I found no trace of any closing cors. belonging to the Tp. south, nor of any sixteenth cors. on the standard.

General Description.

Through Range 19 E., this line runs over low mountain ridges and hollows. The land north of the line is broken ridges and hollows covered with sage brush, and grass. It should be subdivided.



July 14, 1906.

U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by John R. Stewart, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the ~~survey~~ of the ~~First Standard Parallel South through Range 19 East of the Salt Lake Base and Meridian, Utah.~~ owing the respective capacities in which they acted:

Harvey Fletcher, Chainman.
Lev A. Snow, Chainman.
Paul Ashworth, ~~Chairman~~ Moundman.
Alden Oscar Gledhill, Moundman.
John W. Pickering, Axman.
Timby Stewart, ~~Chairman~~ Axman.
John R. Llewellyn, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted John R. Stewart, United States Deputy Surveyor, in ~~surveying~~ all parts or portions of the ~~First Standard Parallel South through Range 19 East of the Salt Lake Base and Meridian, State of Utah~~ retracing

the ~~Base and~~ meridian, ~~State~~ of ~~Utah~~, which are represented ~~retraced~~ ~~retracement~~ the foregoing field notes as having been ~~surveyed~~ by him and under his direction; and that said ~~survey~~ has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for ~~Utah~~.

Harvey Fletcher, Chainman.
Lev A. Snow, Chainman.
Paul Ashworth, ~~Chairman~~ Moundman.
Alden Oscar Gledhill, Moundman.
John W. Pickering, Axman.
Timby Stewart, ~~Chairman~~ Axman.
John R. Llewellyn, Flagman.

scribed and sworn to before me this 24th day of August, 1906 }

SEAL

John R. Stewart
U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

We, Scott P. Stewart and John R. Stewart, United States Deputy Surveyors, solemnly swear that, in pursuance of a contract received from Thomas A. Full, United States Surveyor General for Utah, bearing date of the 30th day of April, 1906, we have well, faithfully, and truly, in proper persons and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, retraced all those parts or portions of the First Standard Parallel South, through Range 19 East, of the Salt Lake Base and Meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by us, and under our direction; and we do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

Scott P. Stewart
and

John R. Stewart
United States Deputy Surveyor

Subscribed by said John R. Stewart, and sworn to before me,

this 19th day of Septem^r, 1906

Thomas A. Full

U.S. Surveyor-General

for Utah.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 1906

The foregoing field notes of the survey of the First Standard Parallel South, through Range 19 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart
under their contract No. 295, dated April 30, 1906, having critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Thomas A. Full
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office

United States Surveyor General

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4-679.

L.
BOOK A-335

FILED

SEP 19 1906

(W.H.)

FIELD NOTES

retracement
OF THE SURVEY OF THE

EAST BOUNDARY OF UNTAH INDIAN RESERVATION

in

Township No. 5 South, Range No. 19 East,

Of the Salt Lake Base and Meridian,

State of Utah

AS SURVEYED BY

cott P. Stewart and John R. Stewart, United States Deputy Surveyors

their ~~under~~ Contract No. 295, dated April 30, 1906., ~~1906~~ XXXretracement ~~they~~ commenced July 15, 1906., 1906retracement ~~they~~ completed July 15, 1906., 1906

6-161

R. C. 6-15. 13'

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher.....Chainman.....

Leo A. Snow.....Chainman.....

Paul Ashworth.....Moundman.....

Quinby Stewart.....Moundman.....

Alden Oscar Gledhill.....Axman.....

John W. Pickering.....Axman.....

John R. Llewellyn.....Flagman.....

For preliminary affidavits see book "B" Tp. 4 S., R. 20 E.

BOOK A-335

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE,

and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we are measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chain

, Chainm

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE,

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Mound

, Moundm

Subscribed and sworn to before me this _____ }
day of _____, 190 }



WE,

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Ax

, Axm

Subscribed and sworn to before me this _____ }
day of _____, 190 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

, Flag

Subscribed and sworn to before me this _____ }
day of _____, 190 }



Retracement Uintah Indian Reservation bdy. in T.5 S. R.19 E.

Survey commenced July 15, 1906, and executed with a Young and Sons light mountain transit No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined, tested on the meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, on June 1, 1906.

At the standard closing cor. of Tps. 5 S., R. 19 E. latitude $40^{\circ} 19' 50''$ N., longitude $109^{\circ} 48' 13''$ W., I set off $40^{\circ} 20' N.$, on the lat. arc; $21^{\circ} 39' N.$, on the decl. arc; and at 7 h 6 m a.m.l.m.t., I determine a meridian with the solar.

Note: For complete test of instrument see notes of subdivision of T.5 S., R.19 E.

Note: On account of the closings in this township I deem it necessary to retrace part of the E. bdy. of the Uintah Indian Reservation.

Therefore I run

N. 23° W. along 17th mile.

15.37 The 17th mile cor. on bdy., which is a sandstone, 10x10x4 inc. above ground, firmly set, and mkd. and witnessed as described by the surveyor general.

Thence N. 23° W., along the 18th mile.

79.42 Intersect at the 18th mile cor., which is a sandstone, 6x8x4 inc. above ground firmly set, and mkd. and witnessed as described by the surveyor general.

Thence along 19th mile

N. 23° W.

Re-tracement. bdy. Uintah Indian Reservation-continued

Chains

79.52 The 19th mile cor.on the bdy.,also angle cor.,which is a sandstone,6x12x5 ins.above ground,firmlly set, and mkd.and witnessed as described by the surveyor general.

Thence along 20th mile.

N.25° E.

80.38 The 20th mile cor.on the bdy.,which is a sandstone,6x11x5 ins.above ground,firmlly set, and mkd.and witnessed as described by the surveyor general.

Thence along the 21st mile.

N.35° E..

80.00 The 21st mile cor.on the bdy.,which is a sandstone,11x10x5 ins.above ground,firmlly set, and mkd.and witnessed as described by the surveyor general.

Thence along 22nd mile.

N.40° E.

80.32 The 22nd mile cor.on the bdy.,which is a sandstone,6x9x7 ins.,above ground,firmlly set, and mkd.and witnessed as described by the surveyor general,bears N.50° W.,10 lks dist.The course of this line is therefore N.39° 56' E.

Thence along 23rd mile.

N.40° E.,

Retracement E.bdy.Uintah Indian Reservation -Contd.

Chains.

80.12 The 23rd mile cor.,on bdy,which is a sandstone,6x9x5 ins above ground,firmlly set, and mkd, and witnessed as described by the surveyor general,bear N.50°W. 10 lks. dist.

The course or this line is therefore N.59°56'E.

July 15,1906:At the noon hour the sky is overcast and solar observations are impossible.

Note: I found no trace of any closing corners along E.
Bdy.of Uintah Indian Reservation for Tps.1 and 2 S.
R.2 E., U.S.B.and M.

— — —

July 15,1906.

John P. Stewart
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
 United States Deputy Surveyor, to assist in running, measuring, and
 marking the lines and corners described in the foregoing field notes of the survey of

 wing the respective capacities in which they acted:

....., *Chairman.*
 or final affidavits see book "Z⁴" Tp.3 N., R. 22 E., *Chairman.*
 , *Moundman.*
 , *Moundman.*
 , *Arman.*
 , *Arman.*
 , *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
 United States Deputy Surveyor, in surveying all
 se parts or portions of the

 of the
 meridian, of which are represented
 the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 mer monuments established, according to the instructions furnished by the United States Surveyor
 general for

....., *Chairman.*
 For final affidavits see book "Z⁴" Tp.3 N., R. 22 E., *Chairman.*
 , *Moundman.*
 , *Moundman.*
 , *Arman.*
 , *Arman.*
 , *Flagman.*

scribed and sworn to before me this }
 day of , 190 }
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FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from United States Surveyor General for bearing date of day of 190 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final affidavits see book "Z⁴" Tp. 3 N., R. 22 E.

..... of the meridian, in the of which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said and sworn to before me }
this day of 190 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, May 4, 1906.

The foregoing field notes of the survey of the retracement of the East Boundary of the Uintah Indian Reservation in Township No. 5 South, Range No. 19, East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart under his contract No. 295, dated April 30, 1906, having been critically examined, and the necessary corrections and explanations made, the said field notes, and retracements surveys they describe, are hereby approved.

Thomas Kelly
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in has been correctly copied from the original notes on file in this office

United States Surveyor General

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PAGE

4-679.

BOOK A-335
M.

FILED

SEP 19 1906

FIELD NOTES

OF THE SURVEY OF THE

SUBDIVISION

cf

Township No. 5 South, Range No. 19 East,

Of the Salt Lake Base, and Meridian,
State of Utah.

AS SURVEYED BY

Scott P. Stewart and John H. Stewart, United States Deputy Surveyor,
their
under contract No. 295, dated April 30, 1906, 1906

Survey commenced July 15, 1906, 1906

Survey completed July 22, 1906, 1906

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6-111 6-337-241
6-111 6-337-241

NAMES AND DUTIES OF ASSISTANTS.

Harvey Fletcher Chairman

Leo A. Snow Chairman

Paul Ashworth Moundman

Quinby Stewart Moundman

Alden Oscar Gledhill Axman

John W. Pickering Axman

John R. Llewellyn Flagman

For preliminary affidavits see book "Q" Tp.4 S... R..20 E.

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PRELIMINARY OATHS OF ASSISTANTS.

WE,

and

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level + chain upon even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

, Chainma

, Chainma

Subscribed and sworn to before me this }
day of , 190 }



WE,

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

, Moundma

, Moundma

Subscribed and sworn to before me this }
day of , 190 }



WE,

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corn and other duties, according to instructions given us, to the best of our skill and ability, in the survey

, Axma

, Axma

Subscribed and sworn to before me this }
day of , 190 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagma

Subscribed and sworn to before me this }
day of , 190 }



Subdivision of T. 5 S. R. 10 E.

Survey commenced July 15, 1906, and executed with a Young and Sons light mountain transit, No. 7381, with solar attachment. The horizontal limb is provided with two double verniers placed opposite to each other, reading to single minutes of arc; which is also the least count of the latitude and declination arcs.

The instrument was examined and tested on the meridian at Salt Lake City, Found correct, and was approved by the surveyor general, for Utah, June 1, 1906.

I examine the adjustments of the instrument and correct the level and collimation errors; then, to test the solar apparatus by comparing its indications resulting from solar observations made during p.m. and a.m. hours, with a meridian established by Polaris observation, I proceed as follows:

At the standard cor. of secs. 35 and 36, on S. bdy. of Tp., heretofore described. latitude $40^{\circ} 19' 59''$ N., longitude $109^{\circ} 45' 22''$ W., I set off $40^{\circ} 20'$ N., on the lat. arc; $21^{\circ} 55'$ N., on the decl. arc; and at 4 h 6 m p.m., l.m.t., I determine a meridian with the solar, and mark a point thereof on a stone firmly set in the ground, 5.00 chs. N. of the cor. At 11 h 57.3 m p.m., l.m.t., I observe Polaris at eastern elongation in accordance with the Manual, and mark a point in the line thus determined on a wooden plug driven in the ground, 5.00 chs. N. of the cor.

July 15, 1906.

July 16, 1906 At 6 h 30 m. a.m., l.m.t. I lay off the azimuth of Polaris $1^{\circ} 34'$ W. and mark the meridian thus determined by cutting a small groove in the stone already set 5.00 chs. N. of the cor.; this mark falls 0.35 ins. east of the mark determined with the solar.

At 7 h 6 m. a.m., l.m.t., I set off $40^{\circ} 20'$ N., on the lat. arc;

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Subdivision at T 5 S R 19 E -Continued

Chains 21°29'N., on the decl. arc; and mark the meridian determined with the solar, by a cross on the stone already set 5.00 chs. N. of the cor.; this mark falls 0.38 ins. east of the mark determined by Polaris observation. The solar apparatus by p.m. and a. m. observations defines positions for meridians respectively about 0°18" west and 0°20" east of the meridian established by Polaris observation; therefore I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the meridian at 7 h 30 m a.m. is N. 16° 15' W., the angle thus determined gives the mag. decl. 16° 15' E.

From the standard cor. of secs 35 and 36, above described I run
N. 0° 1' W., bet. secs. 35 and 36.

Over mountainous land; through dense sage brush.

Desc.

- 13.30 Wash, 25 lks. wide, 6 ft. deep, in hollow, 70 ft. below sec. cor. course E.
Asc.
- 17.50 Top of spur, 70 ft. above hollow, bears E. and W.
Desc.
- 40.00 Set a sandstone, 16x8x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd., $\frac{1}{4}$ on W. face; dig pits, 18x18x12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 46.00 Wash, 40 lks. wide, 8 ft. deep, in hollow, 100 ft. below spur, course SE.
Asc.
- 51.00 Wash, 40 lks. wide, 6 ft. deep, course SE.
- 54.20 Sandstone ledge, 30 ft. high, bears E. and W.

Subdivision of T. 5 S., R. 19 E.-Continued.

Chains.

55.00 Top of spur, 100 ft. above hollow, bears E. and W.

Desc.

62.00 Wash, 20 lks. wide, 6 ft. deep, course SW.

80.00 Set a sandstone, 20x8x7 ins., 15 ins. in the ground, for cor. of secs. 25, 26, 35, and 36, mkd. with 1 notch on S. and E. edges; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous.

Soil, clay and sandy; 3rd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,
80.00 chs.

N. 89° 55' E., on a random line bet. secs. 25 and 36.

40.00 Set temp. \pm sec. cor.

80.07 Intersect E. bdy. of Tp., 1/2 lks. S. of the cor. of secs. 25, 30, 31, and 36, heretofore described.

RThence I run

S. 89° 50' W., on a true line bet. secs. 25 and 36.

Over mountainous land; through dense sage brush and shadscales.

Asc. gradually.

20.00 Top off ridge, 250 ft. above sec. cor., bears N. and S.

Desc.

37.00 Top of ledge, 10 ft. high, bears N. and S.

40.03 $\frac{1}{2}$ Set a sandstone, 18x10x5 ins., 1 $\frac{1}{2}$ ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. \pm on N. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

50.00 Wash, 20 lks. wide, 4 ft. deep, in hollow, 300 ft. below ridge, course SW.

Asc.

Subdivision of T. 5 S. R. 19 E. -Continued

Chains.	
61.27	Foot of ledge, 14 ft. high, bears NE and SW.
63.00	Ledge, 10 ft. high, bears NE and SW.
70.00	Top of ridge, 300 ft. above hollow, bears NE and SW.
	Desc.
77.00	Top of ledge, 10 ft. high, bears N. and S.
80.07	The cor. of secs. 25, 26, 35, and 36.
	Land, mountainous.
	Soil, gravelly and clay; 2nd and 3rd rate.
	No timber,
	Undergrowth, sage brush and shadscales.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth, 8 80.07 chs.
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	N. 0° 1' W., bet. secs. 25 and 26.
	Over mountainous land; through dense undergrowth.
	Desc. gradually.
6.00	Wash, 20 lks. wide, 5 ft. deep, course S. 20° W.
	Asc. gradually.
16.00	Wash, 16 lks. wide, 5 ft. deep, course S. 25° E.
24.00	Top of spur, 100 ft. above hollow, bears E. and W.
	Desc.
27.00	Wash, 10 lks. wide, 4 ft. deep, in hollow, 75 ft. below spur course S. 20° W.
	Asc.
46.00	Set a sandstone, 18x10x6 ins., 12 ins. in the ground, for a sec. cor. mka. on W. face; dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth, 5½ ft. base, 1½ ft. high, W. of cor.
44.00	Wash, 20 lks. wide, 4 ft. deep, course SE.
53.00	Wash, 20 lks. wide, 3 ft. deep, course SW.

Subdivision of T. 5 S., R. 19 E., continued

Chains	
61.75	Top of rocky spur, 200 ft. above hollow, bears E. and W. Desc.
73.50	Bottom of hollow, 100 ft. below spur, course W. Asc.
80.00	Set a sandstone, 20x12x5 ins., 15 ins. in the ground, for cor. of secs. 23, 24, 25, and 26, mkd. with 2 notches on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor. Land, mountainous. Soil, clay and gravelly; 2nd and 3rd rate. No timber. Undergrowth, sage brush and shadscales. Good grass. Mountainous land, or land covered with dense undergrowth, etc. ch.s.
	July 16, 1866: At this cor. I set off 21° 26' N., on the decl. arc; and at 6 h. 6 m. p.m., l.m.t., I observe the sun on the meridian the resulting lat. is 40° 22' N., which is the proper lat. nearly.
	N. 88° 50' E., on a random line bet. secs. 24 and 25. 40.00 Set temp. & sec. cor.
80.00	Intersect E. bdy. of Tp., 17 lbs. N. of the cor. of secs. 18, 24, 25, and 30, heretofore described. Thence 1 run S. 88° 57' W., on a true line bet. secs. 24 and 25. Over rolling mesa; through dense sage brush.
32.00	Leave mesa, bears NW and SE. Desc.
.40.00	Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for sec. cor. mkd. & on N. face; and raise a mound of stone,

Subdivision of T .5 S., R.19 E.-Continued.

- Chains 2 ft. base, $1\frac{1}{2}$ ft. high, N of cor.
- 80.00 The cor. of secs. 23, 24, 25, and 26.
Land, mountainous and nearly level.
Soil, gravelly; 3rd rate.
No timber.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth,
80.00 chs.
- N. 0° 1' W., bet. secs. 23 and 24.
Over mountainous land; through dense undergrowth.
Asc. gradually.
- 3.50 Wash, 15 lks. wide, 4 ft. deep, course S. 30° W.
17.00 Begin abrupt ascent, bears NW and SE.
21.00 Wash, 10 lks. wide, 5 ft. deep, course S. 30° W.
33.00 Rocky spur, 150 ft. above sec. cor., bears E. and W.
Desc.
40.00 Set a sandstone, 18x8x8 ins., 12 ins. in the ground, for
 $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{2}$ on W. face; dig pits, 18x18x12 ins., N. and
S. of stone, 3 ft. dist.; and raise a mound of earth; $3\frac{1}{2}$ ft.
base, $1\frac{1}{2}$ ft. high, W. of cor.
50.00 Bottom of swale, 150 ft. below spur, course SW.
Asc.
61.00 Begin abrupt ascent, bears NW and SE.
67.00 Top of ascent, 300 ft. above swale, bears NW and SE.
Thence over rolling mesa.
80.00 Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for
cor. of secs. 13, 14, 23, and 24, mkd. with 3 notches on S. and
1 notch on E. edges; dig pits, 18x18x12 ins., in each sec.
 $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft.
high, W. of cor.
Land, mountainous

SUBDIVISION OF THE C. R. T. C. E. Continued

Chains Soil, gravelly; 3rd rate.
No timber.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth,
80.00 chs.

N. 89° 57' E., on a random line bet secs. 13 and 24.

40.00 Set temp. $\frac{1}{2}$ sec. cor.
79.92 Intersect E. bdy. of Tp., at the cor. of secs. 13, 18, 19, and
24, heretofore described.

Thence I run

S. 89° 57' W., on a true line bet. secs. 13 and 24.

Over mountainous land; through dense sage brush.

Desc.

12.00 Wash, 10 lks. wide, 3 ft. deep, course NE in hollow, 100 ft. be-
low sec. cor., course NE
Asc.

20.00 Ledge, 10 ft. high, bears NE and SW.

34.00 Begin abrupt ascent, bears N. and E.

39.86 Top of ascent, 400 ft. above sec. cor., bears NW and SE:
Enter rolling mesa.

Set a sandstone, 14x8x5 ins., 9 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.

79.92 The cor. of secs. 13, 14, 23, and 24.

Land, mountainous and rolling mesa.

Soil, gravelly and clay loam 2nd and 3rd rate.

No timber.

Undergrowth, sage brush.

Subdivision of T.5 S., R.19 E.-Continued.

Chains Good grass for grazing.
Mountainous land, or land covered with dense undergrowth,
79.92 chs.

July 16, 1906.

July 17, 1906: At 7 h 6 m a.m., l.m.t., I set off, $40^{\circ} 23' N.$,
on the lat. arc; $21^{\circ} 20' N.$, on the decl. arc; and determine
a meridian with the solar; at, the cor. of secs. 13, 14, 23,
and 24.

Thence I run
 $N. 0^{\circ} 1' W.$, bet. secs. 13 and 14.
Over mesa.
Through dense sage brush.
40.00 Set a sandstone, $14 \times 9 \times 4$ ins., 9 ins. in the ground, for
 $\frac{1}{2}$ sec. cor., mkd. $\frac{1}{2}$ on N. face; dig pits, $18 \times 18 \times 12$ ins., N. and S.
of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base,
 $1\frac{1}{2}$ ft. high, W. of cor.

51.00 Leave mesa, bears NW and SE.
Descend abruptly over rocks and boulders.

79.00 Leave ledges, bears NW and SE.
Desc. gradually.

80.00 Set a sandstone, $20 \times 10 \times 5$ ins., 15 ins. in the ground, for
cor. of secs. 11, 12, 13, and 14, mkd. with 4 notches on S..
and 1 notch on E. edges; and raise a mound of stone, 2
ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Land, mountainous and rolling mesa.

Soil, clay loam and gravelly; 2nd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Subdivision of T 5 S R 18 E -Continued

- Chains Mountainous land, or land covered with dense under-growth, 80.00 chs.
- 40.00 N. 89° 57' E., on a random line bet. secs. 12 and 13.
Set temp. $\frac{1}{4}$ sec. cor.
- 79.96 Intersect E. bdy. of Tp., 7 lks. N., of the cor. of secs. 7, 12, 13, and 18. heretofore described.
Thence I run
West, on a true line bet. secs. 12 and 13.
Over mountainous land; through scattering sage brush.
Asc. gradually.
- 5.00 Top of spur, 50 ft. above sec. cor., bears NE and SW.
Desc.
- 12.00 Bottom of broad hollow, 50 ft. below spur, course S.
Asc. gradually.
- 39.98 Set a sandstone, 10x10x6 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. mka. $\frac{1}{4}$ on N. face; and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 43.00 Top of spur, 50 ft. above hollow, bears N. and S.
Desc.
- 59.00 Old road, bears N. and S.
- 65.00 Wash, 50 lks. wide, 5 ft. deep, course SE. at junction of
two washes, one coming in from the north and one from
the west. Thence asc. bottom of wash.
- 70.00 Leave bottom of wash, course E., comes from NW.
Asc. gradually.
- 77.00 Vernal-White Rocks road, bears N. 70° W. and S. 70° E.
- 79.25 Wash, 10 lks. wide, 3 ft. deep, course SE.
Continue ascent.
- 79.96 The cor. of secs. 11, 12, 13, and 14.

Subdivision of T 5 S. R 19 E -Continued

Chains	Land, mountainous.
	Soil, clay and gravelly; 3rd rate..
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, 79.86 chs.
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	N. 0° 1' W., bet. secs. 11 and 12.
	Over mountainous land; through dense sage brush.
	Desc.
1.25	Vernal-White Rocks road, bears NW and SE.
1.50	Bottom of hollow, 10 ft. below sec. cor., course SE.
	Ascend over ledges.
7.50	Top of rocky spur, 200 ft. above hollow, bears E. and W.
	Desc.
24.00	Leave ledges, bears NW and SE.
30.00	Wash, 10 lks. wide, 2 ft. deep, course SE..
33.00	Wash, 25 lks. wide, 4 ft. deep, in hollow, 200 ft. below spur, course S. 30° E..
40.00	Set a sandstone, 16x10x7 ins., 11 ins. in the ground, for sec. cor., mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
44.50	Top of rocky spur, 100 ft. above hollow, bears E. and W.
	Desc.
50.00	Bottom of hollow, 100 ft. below spur, course SW.
	ASC.
56.50	Top of spur, 50 ft. above hollow, bears NE and SW.
	Desc.
74.00	Wash, 10 lks. wide, 4 ft. deep, course SW.
79.50	Wash, 70 lks. wide, 8 ft. deep, in hollow, 100 ft. below spur,

Subdivision of T. 5 S., R. 19 E. -Continued.

- Chains course SW.
- Asc.
- 80.00 Set a sandstone, 18x12x5 ins., 12 ins. in the ground, for cor. of secs. 1, 2, 11, and 12, mkd. with 5 notches on S. and 1 notch on E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Land, mountainous.
- Soil, gravelly; 3rd rate.
- Timber, cedar.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth, 80.00 chs.
- July 17, 1906: At this cor. I set off $21^{\circ}17'N.$, on the decl. arc; and at C h 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ}24'N.$, which is the proper lat. nearly.
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- East, on a random line bet. secs. 1 and 12.
- 40.00 Set temp. $\frac{1}{2}$ sec. cor.
- 79.80 Intersect E. bdy. of Tp., 19 lks. N. of the cor. of secs. 1, 6, 7, and 12, heretofore described.
- Thence I run
N. $89^{\circ}52'$ W., on a true line bet. secs. 1 and 12.
Over mountainous land; through dense sage brush.
- Desc.
- 5.00 Wash, 50 lks. wide, 6 ins. deep, in bottom of hollow, 25 ft. below sec. cor., course S. $30^{\circ}W.$
- Asc. gradually.
- 15.75 Wash, 20 lks. wide, 3 ft. deep, course S. $20^{\circ}E.$
- 26.00 Top of spur, 100 ft. above hollow, bears N. and S.

Subdivision of T.5 S.1., R.19 E.-Continued.

Chains	Desc.
34.00	Gradually.
	Wash, 10 lks. wide, 3 ft. deep, in hollow, 50 ft. below spur, course S. 20° E.
	Asc. gradually.
39.90	Set a sandstone, 14x8x5 ins., 9 ins. in the ground, for $\frac{1}{2}$ sec.cor.. mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
40.40	Ledge, 10 ft. high, bears NW and SE.
56.00	Begin abrupt ascent, over large boulders, bears N. and S.
60.50	Top of ridge, 500 ft. above hollow, bears N. 20° E. and S. 20° W.
	Leave boulders, bears N. 20° E. and S. 20° W.
	Desc. abruptly.
62.00	Top of perpendicular sandstone ledge, 75 ft. high, bears N. and S.
78.70	Wash, 30 lks. wide, 4 ft. deep, course SW. in hollow, course SW. As
79.80	The cor. of secs. 1, 2, 11, and 12., Land, mountainous. Soil, gravelly and rocky; 3rd and 4th rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 79.80 chs.
80.00	N. 0° 1' W., on a random line bet. secs. 1 and 2.
80.14	Set temp. $\frac{1}{4}$ sec.cor.
	Intersect N. bdy. of Tp., 7 lks. E. of the cor. of secs. 1, 2, 35, and 36, heretofore described.
	Thence 1 run S. 0° 4' E., on a true line bet. secs. 1 and 2.

Subdivision of T. 5 S., R. 19 E.-Continued.

- Chains Over mountainous land; through dense sage brush.
 Asc.
 .50 Top of ridge, 10 ft. above sec. cor., bears NW and SE.
 Desc.
 6.00 Bottom of hollow, 250 ft. below ridge, course SE.
 Asc.
 20.00 Top of spur, 200 ft. above hollow, bears NW and SE.
 Desc.
 32.00 Hollow, 150 ft. below spur, course S. 60° E.
 Asc.
 38.00 Top of ridge, 200 ft. above hollow, bears N. 80° W. and S. 80°
 E.
 Desc.
 41.14 Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone,
 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
 66.00 Bottom of hollow, 250 ft. below ridge, course SE.
 Asc.
 77.00 Top of spur, 150 ft. above hollow, bears E. and W.
 Desc.
 81.14 The cor. of secs. 1, 2, 11, and 12.
 Land, mountainous.
 Soil, clay loam; 2nd rate.
 No timber.
 Undergrowth, sage brush.
 Good grass for grazing.
 Mountainous land, or land covered with dense undergrowth,
 81.14 chs.

July 17, 1906.

July 18, 1906: At 7 h 6 m a.m., l.m.t., I set off $40^{\circ} 20' N.$
 on the lat. arc; $21^{\circ} 09' N.$, on the decl. arc; and determine a

Subdivision of T.5 S., R.19 E.-Continued.

Chains	meridian, with the solar, at the standard cor. of secs. 34 and 35, on S. bdy. of Tp., heretofore described.
	Thence I run
	N.0° 2' W., bet. secs. 34 and 35.
	Over mountainous land; through dense sage brush.
	Desc.
1.50	Sandstone ledge, 5 ft. high, bears E. and W.
	Thence over ledges and boulders.
8.00	Bottom of hollow, 75 ft. below sec. cor., course NW.
	Leave ledges and boulders, bears NW and SE.
	Asc.
14.00	Top of rocky spur, 20 ft. above hollow, bears N.60° W. and S. 60° E.
	Desc.
19.50	Bottom of hollow, 50 ft. below spur, course N.70° W.
	Asc.
27.00	Top of spur, 30 ft. above hollow, bears N.30° W. and S.30° E.
	Desc.
38.00	Bottom of hollow, 60 ft. below spur, course N.10° W.
	Asc.
40.00	Set a sandstone, 24x11x6 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
58.00	Top of spur, 10 ft. above hollow, bears E. and W.
	Desc.
61.00	Bottom of hollow, 50 ft. below spur, course W.
	Asc.
69.00	Top of spur, 75 ft. above hollow, bears E. and W.
	Desc.
70.75	Top of ledge, 8 ft. high, bears NE and SW.
72.00	Bottom of hollow, 70 ft. below spur, course S.60° W.
	Asc.
80.00	Set a sandstone, 24x9x6 ins., 18 ins. in the ground, for cor. of secs. 26, 27, 34, and 35, mkd. with 1 notch on S. and 2 notches on E. edges; and raise a mound of stone, 2 ft.

Subdivision of T. 5 S., R. 19 E. Continued

Chains	bare, 1 $\frac{1}{2}$ ft. high, N. of cor. Land, mountainous. Soil, gravelly and clay loam; 2nd and 3rd rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 ac.
	N. 89° 55' E., on a random line bet. secs. 26 and 35.
40.00	Set temporary sec. cor.
80.00	Intersect N. and S. line, 12 lks. N. of the cor. of secs. 25, 26, 34, and 35.
	True line West, on a true line bet. secs. 26 and 35.
	Over mountainous land; through dense sage brush.
	Desc.
3.25	Wash, 25 lks. wide, 5 ft. deep, in hollow; 20 ft. below sec. cor. course S. 30° W. Acc. gradually.
11.75	Sandstone ledge, bears N. and S.
40.00	Set a sandstone, 10x10x4 in., 11 ins. in the ground, for sec. cor., rkd. # on N. face; and dig pits, 18x18x12 in., E. and W. of stone, 3 ft. apart; and raise a mound of earth, 3 $\frac{1}{2}$ ft. base; 1 $\frac{1}{2}$ ft. high, N. of cor.
43.00	Begin steep ascent, bears N. and S.
56.00	Top of ridge, 400 ft. above hollow, bears N. and S. - Desc.
80.00	The cor. of secs. 26, 27, 34, and 35., Land, mountainous. Soil, gravelly and sandy; 3rd rate.

Subdivision of T.5 S., R.19 E.-Continued.

Chains	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,
80.00 chs.	
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	N.0°E.W., bet. secs. 26 and 27.
	Over mountainous land; through scattering sage brush.
	Asc. over ledges and boulders.
2.00	Leave ledges and boulders, bears E. and W.
3.00	Top of spur, 50 ft. above sec. cor., bears E. and W.
	Desc.
19.00	Enter ledges and boulders bears NE and SW.
20.50	Leave ledges and boulders, bears NE and SW.
32.00	Bottom of hollow, 100 ft. below spur, course S.70°W.
	Asc.
38.50	Sandstone ledges, 15 ft. high, bears N.70°E. and S.70°W.
39.00	Top of spur, 40 ft. above hollow, bears N.70°E. and S.80°W.
	Desc. over ledges and boulders.
40.00	Set a sandstone, 18x10x4 ins., 12 ins. in the ground, for sec. cor., mkd. 2 on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
42.50	Short hollow, 30 ft. below spur course W.
	Ascend.
46.00	Leave ledges abd boulders, bears E. and W.
60.00	Top of ridge, 50 ft. above hollow, bears E. and W.
	Desc. gradually over sandy slope
	Enter dense sage brush, bears E. and W.
60.00	Set a sandstone, 18x9x5 ins., 12 ins. in the ground, for cor. of secs. 22, 23, 26, and 27, mkd. with 2 notches on S., and

Subdivision of T. 5 S., R. 19 E. -Continued.

Chains E.edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor..
Land, mountainous.
Soil, sandy and stony; 2nd and 4th rate.
No timber.
Undergrowth, sage, brush.
Good grass.
Mountainous land, or land covered with dense undergrowth,
80.00 chs.
July 18, 1906: At the non hour the sky is overcast and
solar observations are impossible.

East, on a random line bet. secs. 23 and 26.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.94 Intersect N. and S. line, at the cor. of secs. 23, 24, 25, and
26.
Thence 1 run
West, on a true line bet. secs. 23 and 26.
Over rolling mountainous land; through scattering sage
brush.
Desc.
4.00 Wash, 10 lks. wide, 3 ft. deep, in broad hollow, 30 ft. below
sec. cor., course S. 20° W.
.Asc. gradually.
4.80 Wash, 20 lks. wide, 4 ft. deep, course S. 10° W.
59.97 Set a sandstone, $14 \times 12 \times 5$ ins., 9 ins. in the ground, for
 $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; dig pits, $18 \times 18 \times 12$ ins., E.
and W. of stone, 3 ft. dist.; and raise a mound of earth,
 $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
46.00 Top of ridge, 250 ft. above hollow, bears N. and S.
Desc.
50.00 Bottom of hollow, 50 ft. below ridge; course N. 15° W.
Asc.

Subdivision of T. 5 S., R. 19 E.-Continued.

Chains	Desc.
55.00	Top of rocky spur, 75 ft. above hollow, bears N. and S.
67.00	Top of sandstone ledge, 5 ft. high, bears N. and S.
69.50	Wash, 45 lds. wide, 7 ft. deep, course N. 1° E.
72.94	The cor. of secs. 22, 23, 26, and 27. Land, mountainous. Soil, sandy and gravelly; 3rd rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, 78.94 chs.
	N. 0° 2' W., bet. secs. 22 and 23. Over mountainous land; through dense sage brush. Desc. gradually.
8.25	Bottom of hollow, 40 ft. below sec. cor., course N. 70° W. Acc.
	Leave sage brush, bears N. 70° W. and S. 70° E.
10.00	Sandstone ledge, 12 ft. high, bears N. 70° E. and S. 70° W.
20.00	Top of spur, 75 ft. above hollow, bears N. 75° E. and S. 75° W.
	Desc.
26.00	Bottom of hollow, 40 ft. below spur, course S. 75° W. Acc.
35.00	Top of spur, 40 ft. above hollow, bears N. 75° E. and S. 75° W. Desc.
38.00	Bottom of hollow, 40 ft. below spur, course S. 75° W. Acc.
40.00	Set a sandstone, 18x12x4 inc., 12 inc. in the ground, for sec. cor. and it on W. face; and raise a mound of stone,

Subdivision of T. 5 S., R. 19 E. -Continued.

- Chains 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- 41.50 Top of spur, 50 ft. above hollow, bears N. 60° E. and S. 60° W.
- Desc.
- 47.00 Bottom of hollow, 50 ft. below spur, course SW.
- Asc.
- 61.00 Foot of perpendicular sandstone ledge, 50 ft. high, bears N. 60° E. and S. 60° W.
- 80.00 Set a quartzite stone, 16x10x6 ins., 11 ins. in the ground, for cor. of secs. 14, 15, 22, and 23, mkd. with 3 notches on S. and 2 notches on E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
- Land, mountainous.
- Soil, sandy and stony; 2nd and 4th rate.
- No timber.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth,
- 80.00 chs.
-
- East, on a random line bet. secs. 14 and 23.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 60.00 Intersect N. and S. line, at the cor. of secs. 13, 14, 23, and 24,
- Thence 1 run
- West, on a true line bet. secs. 14 and 23.
- Over rolling mesa; through dense sage brush.
- 11.00 Leave mesa, bears NW and SE.
- Desc.
- Leave dense and enter scattering sage brush, bears NW and SE.
- 16.00 Bottom of hollow, 300 ft. below mesa, course S. 20° E.

Subdivision of T.5 S., R.19 E.-Continued.

Chains	Asc. gradually.
40.00	Set a sandstone, 16x9x4 ins., 12 ins. in the ground, for 1/2 sec.cor.. mkd. 4 on N. face; and raise a mound of stone, 2 ft. base, 1 1/2 ft. high, N. of cor.
60.00	Top of ridge, 350 ft. above hollow, bears N. and L. Dense.
80.00	The cor. of sect. 14, 15, 22, and 23. Land, mountainous and rolling mesa. Soil, sandy and stony; sand and cht. rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.

July 18, 1906.

July 18, 1906: At 7 h. 6 m a.m., I set off 40° 23' N., on the lat.arc; 20° 59' E., on the decl.arc; and determine a meridian, with the solar, at the cor. of sect. 14, 15, 22, and 23.
Thence I run N. 0° 2' W., bet. sects. 14 and 15. Over mountainous land; through scattering sage brush. Asc.
3.00 Top of ascent, 50 ft. above sec.cor., bears N. 80° W. and S. 80° E.
Thence over rolling mesa. Enter dense sage brush.
40.00 Set a quartzite stone, 16x8x4 ins., 12 ins. in the ground, for 1/2 sec.cor.. mkd. 4 on W. face; dig pits, 18x18x12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth, .3 1/2 ft. base, 1 1/2 ft. high, N. of cor.

Subdivision of T. 5 S., R. 19 E.-Continued.

Chains

- 80.00 Set a sandstone, 20x10x5 ins., 15 ins. in the ground, for cor. of secs. 10, 11, 14, and 15, mkd. with 4 notches on S. and 2 notches on E. edges; dig pits, 18x18x12 ins., in each sec. $5\frac{1}{2}$ ft. dist.; and raise a mound of earth, 4 ft. base, $2\frac{1}{2}$ ft. high, W. of cor.
- Land, mountainous and rolling mesa.
- Soil, sandy and gravelly loam; 2nd rate.
- No timber.
- Undergrowth, sage brush.
- Good grass for grazing.
- Mountainous land, or land covered with dense undergrowth, 80.00 chs.
-
- East, on a random line bet. secs. 11 and 14.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 78.96 Intersect N. and S. line, 10 lks. S. of the cor. of secs. 11, 12, 13, and 14.
- Thence 1 run
- S. $89^{\circ} 56' W.$, on a true line bet. secs. 11 and 14.
- Over mountainous land; through scattering sage brush.
- Asc.
- 2.00 Enter ledges, bears NW. and SE.
- 11.50 Top of ascent, 400 ft. above sec. cor., bears NW. and SE.
- Leave ledges, bears NW and SE.
- Enter rolling mesa, bears NW and SE.
- Enter dense sage brush, bears NW and SE.
- 89.98 Set a sandstone, 15x9x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{2}$ on N. face; and dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
- 55.00 Leave mesa, bears NW and SE.

Latitude 34° 16' N., P. 10° W. -Can't find

Chains	Desc.
60.00	Foot of descent, 300 ft. below mesa, bears NW and SE. Enter lower mesa.
78.96	The cor. of secr. 10, 11, 14, and 15. Land, mountainous and rolling mesa. Soil, sandy and clay loam and rocky; 2nd and 4th rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 78.86 chs.
	July 18, 1908: At this cor. I set off 20° 56' N., on the decl. arc; and at 0 h 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 40° 2' N., which is the proper lat. nearly.
	<hr/>
	N. 0° 2' W., bet. secr. 10 and 11. Over rolling mesa; through dense sage brush.
34.00	Begin ascent to higher mesa, bears NW and SE.
35.75	Vernal-White Rocks road, bears E. and W.
40.00	Set a quartzite stone, 16x8x4 ins., 12 ins. in the ground, for a sec. cor., mkd. & on W. face; and dig pit, 18x18x12 ins. N. and S. of stone, 3 ft. dist.; and raise a mound of earth, 3½ ft. base, 1½ ft. high, W. of cor.
41.50	Top of ascent, 300 ft. above mesa, bears NW and SE. Enter mesa.
80.00	Set a quartzite stone, 16x8x5 ins., 11 ins. in the ground, for cor. of secs. 2, 3, 10, and 11, mkd. with 5 notches on S. and 2 notches on E. edges; dig pits, 18x18x12 ins., in each sec. 5½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, mountainous and rolling mesa. Soil, sandy and stony; 2nd and 4th rate.

Subdivision of T.5 S., R.19E.-Continued.

- Chains No timber.
Undergrowth, sage brush.
Good range for grazing.
Mountainous land, or land covered with dense undergrowth,
80.00 chs.
-
- N.88°50'E., on a random line bet. secs. 2 and 11.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
79.80 Intersect N. and S. line, 10 lks. N. of the cor. of secs.
1, 2, 11, and 12.
Thence I run
West, on a true line bet. secs. 2 and 11.
Over mountainous land; through scattering sage brush.
Asc. gradually.
.10 Wash, 5 lks. wide, 5 ft. deep, course S.
9.00 Top of spur, 25 ft. above sec. cor., bears N. and S.
Desc.
11.25 Wash, 50 lks. wide, 5 ft. deep, in hollow, 50 ft. below spur,
course S. 30° W.
Asc.
16.50 Top of spur, 200 ft. above hollow, bears N. and S.
Desc.
19.00 Old road, bears N. and S.
21.00 Bottom of hollow, 100 ft. below spur, course S. 80° E.
Asc.
36.00 Top of ascent, 500 ft. above hollow, bears NW and SE.
Enter road.
Enter dense sage brush, bears NW and SE.
39.90 Set a quartzite stone, 14x12x4 ins., 9 ins. in the ground,
for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; and raise a mound of
stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
79.80 The cor. of secs. 2, 3, 10, and 11.

Subdivision of T. 5 S., R. 19 E.-Continued.

- Chains Land, mountainous, and nearly level.
Soil, sandy and clay loam and stony; 2nd and 4th rate.
No timber.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth,
79.60 chs.
- Note: Knowing that the line bet. secs. 3 and 10, with inter-
sect the Uintah Indian Reservation bdy.
I run
S. 89° 55' W., on a true line bet. sec's. 3 and 10.
Over nearly level mesa; through dense sage brush.
26.00 Leave mesa, bears N. 30° W. and S. 30° E.
Desc.
37.32 Intersect E. bdy. of Uintah Indian Reservation.
Set a sandstone, 18x12x8 ins., 12 ins. in the ground, for
closing cor. of fractl. sec's. 3 and 10, mkd. C C on E., U.I.
R. on W., with 2 grooves on E. and 5 grooves on S. faces;
and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of
cor.
From this cor. the 23rd mile cor. on the reservation bdy.
heretofore described, bears as follows:
N. 39° 56' E., 27.63 chs. to 23 mile stone.
Land, mountainous and nearly level.
Soil, sandy and gravelly; 3rd rate.
No timber.
Undergrowth, sage brush.
Good grass for grazing.
Mountainous land, or land covered with dense undergrowth,
37.32 chs.

Subdivision of 15 S. 18 E. -Continued

Chains

Note: Knowing that the line bet. secs. 2 and 3 will intersect the Uintah Indian Reservation,

I run

N. 0° 2' W., on true line bet. secs. 2 and 3.

Over nearly level mesa. Through dense sage brush.

40.00 Set a sandstone, 16x11x5 ins., 11 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

44.83 Intersect E. bdy. Uintah Indian Reservation.

Set a sandstone, 10x11x8 ins., 11 ins. in the ground, for closing cor. of fract. secs. 2 and 3, mkd. $\frac{1}{4}$ on S. bdy. on N., 2 grooves on E.; 6 grooves on S. face; dig pits 24x18x12. ins. crosswise on each line, NE and SW, 3 ft., and S. of stone, 7 ft. dist.; and raise a mound of earth, $\frac{3}{4}$ ft. base, 2 ft. high, E. of cor.

From this cor. the $\frac{1}{4}$ mile cor. bet. the 23rd and 24th mile cors., heretofore described, bears as follows:

N. 39° 20' E., 9.55 chs., to mile stone, bet. 23rd and 24th mile cors.

Land, nearly level.

Soil, clay loam; 2nd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Land covered with dense undergrowth, 44.83 chs.

July 18, 1906.

July 20, 1906: At 7 h 36 m a.m., l.m.t., I set off 40° 20' N., on the lat. arc; 20° 48' N., on the decl. arc; and determine a

Subdivision of T 5 S. R.19 E.-Continued.

- Chains meridian with the solar, at the standard cor. of secs. 33 and 34, on S. bdy. of Tp., heretofore described.
 Thence I run
 N. 0° 02' W., bet. secs. 33 and 34.
 Over broken ground; through dense undergrowth,
 Desc. gradually;
 36.50 Wash, 30 lks. wide, 4 ft. deep, in hollow, 400 ft. below sec. cor.
 course W.
 Asc.
 40.00 Set a sandstone, 16x8x5 ins., 11 ins. in the ground, for
 $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone,
 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 44.00 Top of rocky spur, 40 ft. above hollow, bears N. 80° E. and S.
 80° W.
 Desc.
 57.00 Wash, 12 lks. wide, 4 ft. deep, course W., in hollow, 100 ft.
 below spur, etc., etc.
 Asc.
 70.00 Top of ridge, 200 ft. above hollow, bears E. and W.
 Desc.
 79.75 Ledge, 10 ft. high, bears E. and W.
 80.00 Set a sandstone, 20x10x6 ins., 15 ins. in the ground, for
 cor. of secs. 27, 28, 33, and 34, mkd. with 1 notch on S. and
 3 notches on E. edges; and raise a mound of stone, 2 ft.,
 base, 1 $\frac{1}{2}$ ft. high, W. of cor.
 Land, mountainous, covered with dense undergrowth;
 Soil, gravelly and clay; 3rd rate.
 No timber. Undergrowth sagebrush.
 Good grass for grazing.
 Mountainous land, or land covered with dense under-
 growth 80.00 chs.
 N. 89° 55' E., on a random line bet. secs. 27 and 34.
 40.00 Set temp. $\frac{1}{4}$ sec. cor.
 80.00 Intersect N. and S. line, at the cor. of secs. 26, 27, 34, and 35.
 Thence I run

Subdivision of T. 5 S., R. 19 E.-Continued

Chains	S. 69° 55' W., on a true line bet. sec. 27 and 34. Overmountainous land; through dense sage brush. Desc. gradually.
11.00	Top of ledge, 10 ft. high, bears NE and SW.
40.00	Set a sandstone, 10x18x6 ins., 11 ins. in the ground, for a sec. cor., mkd. 1 on N. face; and raise a mound of stone, 2 ft. high, 11 ft. high, N. of cor.
40.50	Sandstone, ledge, 15 ft. high, bears N. and S.
44.00	Bottom of hollow, 100 ft. below sec. cor., course SW. Acc.
46.00	Top of spur, 50 ft. above hollow, bears NE and SW. Desc.
78.50	Ledge, 30 ft. high, bears NE and SW.
86.00	The cor. of recs. 27, 28, 32, and 34. Land, mountainous. Soil, gravelly and clay; 3rd rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountain land, or land covered with dense undergrowth, 86.00 chs.
	K. Co N.W., bet. sec. 27 and 28. Overmountainous land; through dense sage brush. Desc. gradually.
5.00	Ledge, 30 ft. high, bears E. and W.
18.00	Bottom of hollow, 60 ft. below sec. cor., course S. 60° W. Desc.
32.50	Foot of ledge, 30 ft. high, bears N. 75° E. and S. 75° W.
38.50	Top of butte, 100 ft. high, bears E. and W. Desc.

Subdivision of T 5 S R 19 E -Continued

Chains	
40.00	Set a sandstone, 24x12x8 ins., 18 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
48.00	Bottom of hollow, 75 ft. below butte, course N. 60° W.
	Asc.
52.00	Top of spur, 15. ft. above hollow, bears N. 30° W. and S. 30° E.
	Desc.
55.00	Bottom of hollow, 25 ft. below spur, course S. 25° W.
	Asc.
57.75	Sandstone, ledge, 50 ft. high, bears N. 30° E. and S. 30° W.
68.00	Top of knoll, 40. ft. high, Desc.
73.00	Enter ledges and boulders, bears N. 30° E. and S. 30° W.
80.00	Set a sandstone, 18x9x8 ins., 12 ins. in the ground, for cor. of secs. 21, 22, 27, and 28, mkd. with 2 notches on S. and 3 notches on E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous.
	Soil, gravelly; 3rd rate.
	No timber.
	Undergrowth, sage brush.
	Good grass for grazing.
	Mountainous land, or land covered with dense undergrowth,
80.00 chs.	
	July 20, 1906: At this cor. I set off $20^\circ 45'$ N., on the decl. arc; and at 0 h 6 m p.m., l.m.t., I observe the sun on the meridian, the resulting lat. is $40^\circ 22'$ N., which is the proper lat. nearly.
	<hr/>
	N. $89^\circ 55'$ E., on a random line bet. secs. 22 and 27.
40.00	Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of T. 5 S., R. 19 E.-Continued.

Chains	
80.10	Intersect N. and S. line, 5 lks. S. of the cor. of secs. 22, 23, 26, and 27. Thence I run S. $89^{\circ} 53' W.$, on a true line bet. secs. 22 and 27. Over mountainous land; through dense sage brush. desc.
19.00	Bottom of hollow, 60 ft. below sec. cor., course S. $60^{\circ} W.$. Asc.
23.00	Top of spur, 30 ft. above hollow, bears N. $50^{\circ} E.$ and S. $50^{\circ} W.$. Desc.
27.00	Bottom of hollow, 30 ft. below spur, course SW. Asc.
36.00	Top of spur, 40 ft. above hollow, bears N. $20^{\circ} E.$ and S. $20^{\circ} W.$. Desc.
40.05	Set a sandstone, 18x12x4 ins., 12 ins. in the ground, for a sec. cor.. mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
41.00	Bottom of hollow, 30 ft. below spur, course S. $10^{\circ} W.$. Asc.
44.00	Top of spur, 50 ft. above hollow, bears N. and S. Desc. over ledges.
47.00	Leave ledges, bears N. $30^{\circ} W.$ and S. $30^{\circ} E.$
62.00	Bottom of hollow, 50 ft. below spur, course S. Asc.
65.00	Enter ledges, and boulders, bears N. $30^{\circ} E.$ and S. $30^{\circ} W.$.
76.00	Sandstone ledge, 30 ft. high, bears N. $30^{\circ} E.$ and S. $30^{\circ} W.$.
79.00	Top of spur, 300 ft. above hollow, bears N. and S. Desc.
80.10	The cor. of secs. 21, 22, 27, and 28. Land, mountainous. Soil, clay loam and stony; 2nd and 4th rate. No timber. Undergrowth, sage brush.

Subdivision of T 5 S .R. 18 E -Continued

Chains	Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.10 chs.
	N. 0° 2' W., bet. secs. 21 and 22. Over mountainous land, through dense sage brush and over ledges and boulders. Asc.
4.00	Top of spur, 50 ft. above sec. cor., bears N. 60° W. and E. leave ledges, bears N. 60° W. and E. Desc.
28.50	Bottom of hollow, 100 ft. below spur, course S. 80° E. Asc.
40.00	Set a sandstone, 16x11x5 ins., 11 ins. in the ground, for sec. cor., mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
76.00	Sandstone ledge, 10 ft. high, bears E. and W.
78.00	Top of ascent, 200 ft. above hollow, bears N. 60° E. and S. 75° W. Thence over nearly level mesa.
80.00	Set a sandstone, 16x8x5 ins., 11 ins. in the ground, for cor. of secs. 15, 16, 21, and 22, mkd. with 3 notches on S. and E. edges; mkd. 5 S., on NE, and 19 E. on SE, faces; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Land, mountainous and nearly level. Soil, clay loam and rocky; 2nd and 4th rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.

Subdivision of T.5 S., R.19 E.-Continued.

Chains

July 21, 1906: At 7 h 6 m a.m., l.m.t., I set off $40^{\circ}23'N.$
on the lat. arc; $20^{\circ}37'N.$, on the decl. arc; and determine
a meridian with the solar, at the cor. of secs. 15, 16, 21, and
22.

Thence I run

$N.89^{\circ}53'E.$, on a random line bet. secs. 15 and 22.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

80.00 Intersect N. and S. line, 17 lks. N. of the cor. of secs.
14, 15, 22, and 23.

Thence I run

West, on a true line bet. secs. 15 and 22.

Over mountainous land; through dense sage brush.

Desc.

19.00 Bottom of hollow, 30 ft. below sec. cor., course S. $30^{\circ}W.$

Asc.

21.00 Top of spur, 20 ft. above hollow, bears N. $30^{\circ}E.$ and S. $30^{\circ}W.$

Desc.

27.00 Bottom of hollow, 40 ft. below spur, course S. $30^{\circ}W.$

Asc.

38.00 Top of ledge, 12 ft. high, bears N. $30^{\circ}E.$ and S. $30^{\circ}W.$

38.50 Top of spur, 30 ft. above hollow, bears N. $30^{\circ}E.$ and S. $30^{\circ}W.$

Desc

40.00 Set a sandstone, 18x10x10 ins., 12 ins. in the ground, for
 $\frac{1}{2}$ sec. cor., mkd. $\frac{1}{2}$ on N. face, and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

50.00 Bottom of hollow, 30 ft. below spur, course SW.

Asc.

60.00 Top of spur, 30 ft. above hollow, bears N. $30^{\circ}E.$ and S. $30^{\circ}W.$

Desc.

76.00 Bottom of hollow, 30 ft. below spur, course S. $30^{\circ}W.$

Asc.

Subdivision of Min S'P'io R' -Continued

Chains	
78.00	Top of ascent, 30 ft. above hollow, bears NE and SW. Thence over mesa.
80.00	The cor. of secs. 15, 16, 21, and 22, or land, mountainous and nearly level. Soil, gravelly; 3rd rate. No timber. Undergrowth, sage brush. Good grass for grazing. Mountainous land, or land covered with dense undergrowth, 80.00 chs.
80.00	N.0°2'W., bet. secs. 15 and 16. Over rolling mesa. Thorough dense sage brush.
40.00	Set a quartzite stone, 16x8x6 ins., 12 ins. in the ground, for sec. cor. mkd. on W. face; and raise a mound of stone, 2 ft. base, 1½ ft. high, W. of cor.
80.00	Set a quartzite stone, 16x8x6 ins., 11 ins. in the ground, for cor. of secs. 9/10, 15, and 16 mkd. with 4 notches on S. and 3 notches on E. edges; and dig pits, 2x18x12 ins., in each sec. 265½ ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, W. of cor. Land, nearly level. Soil, gravelly; 3rd rate. No timber. Undergrowth, sage brush. Good grass for grazing.

Subdivision of T.5 S. R.19 E.-Continued.

Chains Land covered with dense undergrowth, 80.00 chs.

East, on a random line bet. secs. 10 and 15.

40.00 Set temp. $\frac{1}{2}$ sec. cor.

60.10 Intersect N. and S. line, 12 lks. S. of the cor. of secs. 10, 11, 14, and 15.

Thence I run

S. 89° 55' W., on a true line bet. secs. 10 and 15.

Over rolling mesa; through dense sage brush.

60.05 Set a sandstone, 16x9x5 ins., 11 ins. in the ground, for
a sec. cor., mka. $\frac{1}{2}$ on N. face; dig pits, 18x18x12 ins., E. and
W. of stone, 3 ft. dist.; and raise a mound of earth; 3 $\frac{1}{2}$ ft.
base, 1 $\frac{1}{2}$ ft. high, N. of cor.

60.10 The cor. of secs. 9, 10, 15, and 16.

Land, rolling mesa.

Soil, sandy and gravelly loam; 2nd rate.

No timber.

Undergrowth, sage brush and shrubscales.

Land covered with dense undergrowth, 80.10 chs.

Note: For reasons already explained I run

S. 89° 55' W., on a true line bet. secs. 9 and 16.

Over rolling mesa; through dense undergrowth.

24.42 Intersect Uintah Indian Reservation Bdy.

Set a sandstone, 18x9x5 ins., 12 ins. in the ground, for
closing cor. of tract. secs. 9 and 16, mka. C C on E, U I R on
W., with 3 grooves on E. and 4 grooves on S. faces; and
raise a mound of stone. 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor.

From this cor. the 21st mile cor. on the Reservation bdy.

Wheretofoe described, bears as follows:

S. 39° 56' W., 28.22 chs., to mile stone No. 21.

Land, nearly level.

Soil, sandy loam; 2nd rate.

No timber. Undergrowth, sage brush.

Land covered with dense undergrowth, 24.42 chs.

Subdivision of T. 5 S., R. 19 E.-Continued.

Chains	Note: For reasons already explained, I run N. $0^{\circ} 2' W.$, on a true line bet. secs. 9 and 10. Over rolling mesa; through dense sage brush.
13.00	Vernal-Whiterocks road, bears N. $70^{\circ} E.$ and S. $70^{\circ} W.$
29.15	Intersect the Uintah Indian Reservation bdy. Set a sandstone, 18x9x5 ins., 12 ins. in the ground, for closing cor. of fractl. secs. 9 and 10, mkd. C.C on S., U I R on N., with 3 grooves on E. and 4 grooves on S. faces; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, S. of cor. From this cor. the 22nd mile cor. on the Reservation bdy. heretofore described, bears as follows:
	N. $39^{\circ} 56' E.$, 14.10 chs., to mile stone No. 22.
	Land, rolling. Soil, clay and sandy loam; 2nd rate.
	No timber. Undergrowth, sage brush.
	Land covered with dense undergrowth, 29.15. chs.
	July 21, 1906: At C h 6 m p.m., l.m.t., The sky is overcast and solar observations are impossible.
	From the cor. of secs. 27, 28, 33, and 34, I run S. $89^{\circ} 55' W.$, on a true line bet. secs. 28 and 33.
	Over mountainous land; through dense sage brush. Desc.
36.10	Canal, 20 lks. wide, 2 ft. deep, course S. $30^{\circ} W.$
39.75	Wash, 30 lks. wide, 5 ft. deep, course SW. Asc. gradually.
40.00	Set a sandstone, 14x8x8 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
52.00	Wash, 10 lks. wide, 2 ft. deep, course SW.
67.25	Wash, 10 lks. wide, 2 ft. deep, course S.
80.00	Set a sandstone, 18x12x6 ins., 12 ins. in the ground, for cor. of secs. 28, 29, 32, and 33, mkd. with 1 notch on S. and 4 notches on E. edges; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.
	Land, mountainous.
	Soil, sandy; 3rd rate.

Subdivision of T.5 S., R.19 E.-Continued.

- Chains No timber. Undergrowth, sage brush and shadscales.
 Mountainous land, or land covered with dense undergrowth,
 60.00 chs. July 21, 1906.
-
- July 22, 1906: At 7 h 6 m a.m., l.m.t., I set off $40^{\circ} 21' N.$,
 on the lat. arc; $20^{\circ} 25' N.$, on the decl. arc; and determine a
 meridian with the solar at the cor. of secs. 28, 29, 32, and 33.
 Thence I run (Knowing that the line will intersect the
 Uintah Indian Reservation bdy.)
 $S.0^{\circ} 3'E.$, on a true line bet. secs. 32 and 33.
 Over hilly ground; through dense sage brush.
 Desc.
- 6.00 Old road, bears NW and SE.
 18.00 Wire fence, bears N. 20° W. and S. 20° E.
 Leave undergrowth and enter cultivated field.
 18.18 Intersect the Uintah Indian Reservation bdy.
 Set a sandstone, 15x9x4 ins., 10 ins. in the ground, for
 closing cor. of fract. secs. 32 and 33, mkd. C C on N., U.I.R.
 on S., with 4 grooves on E. and 1 groove on S. faces; and
 raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
 From this cor. the 18th mile cor. on the Reservation bdy.,
 heretofore described bears as follows:
 $N.23^{\circ} W.$, 28.00 chs., to the 18th mile stone.
 Land, nearly level. Soil, sandy; 3rd rate.
 No timber. Undergrowth, sage brush. Good grass.
 Land covered with dense undergrowth, 18.00 chs.
-
- For reasons already explained I run
 $S.89^{\circ} 55' W.$, on a true line bet. secs. 29 and 32.
 Over rolling ground; through dense sage brush.
 2.20 Canal, 10 lks. wide, 2 ft. deep, course N.
 8.15 Intersect Uintah Indian Reservation bdy.
 Set a sandstone, 16x11x8 ins., 11 ins. in the ground, for
 closing cor. of fract. secs. 29 and 32, mkd. C C on E., U.H.R.
 on W., with 4 grooves on E. and 1 groove on S. faces; and raise

Subdivision of T. 5-S., R. 19, E.-Continued.

Chains a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, E. of cor. (sec. 28).
From this cor. the 18th mile cor. on the reservation bdy.
heretofore described, bears as follows:
N. 23° W., 7.86 chs. to mile stone No. 18.

Land, rolling.

Soil, sandy loam; 2nd rate.

No timber. Undergrowth, sage brush.

Good grass for grazing.

Land covered with dense undergrowth, 8.15 chs.

N. 0° 3' W., bet. secs. 28 and 29.

Over rolling hills and hollows; through dense sage brush.

Asc. gradually.

8.50 Canal, 20 lks. wide, 2 ft. deep, course N. 80° E.

24.00 Wash, 20 lks. wide, 4 ft. deep, course SE.

Asc. over boulders.

27.00 Top of rocky spur, 50 ft. above wash, bears NW and SE.

Leave boulders. Desc.

40.00 Set a quartzite stone, 15x11x7 ins., 10 ins. in the ground,
for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on W. face; and raise a mound of stone,
2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

46.00 Wash, 20 lks. wide, 4 ft. deep, course S. 30° W., in bottom of
hollow, 50 ft. below spur, course S. 30° W., Asc.

52.00 Top of spur, 50 ft. above hollow, bears NE and SW.

Desc.

80.00 Set a sandstone, 20x9x7 ins., 15 ins. in the ground, for
cor. of secs. 20, 21, 28, and 29, mkd. with 2 notches on S. and
4 notches on E. edges; and raise a mound of stcne, 2 ft. base,
1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rolling hills and hollows.

Soil, sandy loam and rocky; 2nd and 4th rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Subdivision of T.5 S., R.19 E.-Continued.

Chains Land, covered with dense undergrowth, 80.00 chs.

N. 89° 55' E., on a random line bet. secs. 21 and 28.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.20 Intersect N. and S. line, 7 lks. S. of the cor. of secs. 21, 22, 27, and 28.

Thence I run

S. 89° 52' W., on a true line bet. secs. 21 and 28.

Over mountainous land; through dense sage brush.

Desc.

6.00 Sandstone ledge, 15 ft. high, bears N. 20° W. and S. 20° E.

9.00 Bottom of hollow, 40 ft. below sec. cor., course S.

Acc.

10.00 Ledge, 20 ft. high, bears N. 20° W. and S. 20° E.

13.00 Top of spur, 40 ft. above hollow, bears N. and S.

Desc.

17.50 Bottom of hollow, 40 ft. below spur, course S.

Acc.

30.00 Top of spur, 30 ft. above hollow, bears N. 60° E. and S. 60° W.

Desc.

40.10 Set a sandstone, 18x18x4 ins., 12 i. s. in the ground, for $\frac{1}{4}$ sec. cor., mkd. $\frac{1}{4}$ on N. face; and raise a mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

61.00 Bottom of hollow, 30 ft. below spur, course S. 30° W.

Acc.

86.20 The cor. of secs. 20, 21, 28, and 29.

Land, mountainous.

Soil, clay and sandy loam; 2nd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Mountainous land, or land covered with dense undergrowth,

Subdivision of T. 5. S. R. 19 E. -Continued

Chains 80.20 chs.

July 22, 1906: At this cor. I set off $20^{\circ} 22' N.$, on the decl. arc; and at 0 h 6 m p.m. l.m.t., I observe the sun on the meridian, the resulting lat. is $40^{\circ} 22' N.$, which is the proper lat. nearly.

Note: Knowing that the line bet. secs. 20 and 29 will intersect the Uintah Indian Reservation bdy.

I run

S. $89^{\circ} 55' W.$, on a true line bet. secs. 20 and 29.

Over rolling hills; through dense sage brush.

9.00 Top of ascent, 100 ft. above sec. cor., bears NE and SW.
Desc. gradually.

40.00 Set a sandstone, 15x6x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor. mkd. $\frac{1}{4}$ on N. face; dig pits, 18x18x12 ins., E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.

42.22 Intersect E. bdy. of the Uintah Indian Reservation.
Set a sandstone, 24x12x7 ins., 18 ins. in the ground, for closing cor. of fract. secs. 20 and 29. mkd with C C on E., U I R on W., with 5 grooves on E. and 2 grooves on S. faces; dig pits, crosswise on each line N and S. 3 ft., and East of stone, 7 ft. dist.; and raise a mound of earth, 4 ft. base, 2 ft. high, E. of cor.

From this cor. the 19th mile cor. on the Reservation bdy. heretofore described, bears as follows:

N. $23^{\circ} W.$, 38 lks. to mile stone No. 19.

Land, rolling.

Soil, sandy loam; 2nd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Subdivision of T. 5 S., R. 19 E.-Continued.

Chains

Land covered with dense undergrowth, 42.22 chs.

N. 0° 3' W., bet. secs. 20 and 21.

Over rolling ground; through dense sage brush.

Asc.

6.00 Top of ascent, 200 ft. above sec. cor., bears N. 60° E. and S. 60° W.

Desc. gradually.

40.00 Set a sandstone, 14x10x7 ins., 9 ins. in the ground, for $\frac{1}{4}$ sec. cor., mkd. on W. face; dig pits, 18x18x12 ins., N. and S. of stone, 3 ft. dist; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

44.75 Wash, 20 lks. wide, 4 ft. deep, course SW.

57.25 Wash, 20 lks. wide, 2 ft. deep, coarse SW.

74.00 Ascend small ridge, bears NE and SW.

76.00 Top of ridge, 50 ft. above $\frac{1}{4}$ sec. cor., bears N. 70° E. and S. 70° W.

Desc.

78.00 Wash, 20 lks. wide, 10 ft. deep, coarse W.

80.00 Point for cor. falls on solid rock therefore I

Set a sandstone, 18x8x8 ins., in mound of stone, for cor. of secs. 16, 17, 20 & 21, mkd. with 3 notches on S. and 4 notches on E. edges; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

Land, rolling.

Soil, sandy and clay loam; 2nd rate.

No timber.

Subdivision of T.5 S.; R.19 E.-Continued.

Chains	Undergrowth, sage brush. Good grass for grazing. Land, covered with dense undergrowth, 80.00 chs.
40.00	N. $89^{\circ} 52' E.$, on a random line bet. secs. 16 and 21. Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect N. and S. line, 10 lks. N. of the cor. of secs. 15, 16, 21, and 22. Thence I run
	S. $89^{\circ} 50' W.$, on a true line bet. secs. 16 and 21. Over rolling mesa; through dense sage brush.
40.00	Set a sandstone, 20x10x6 ins., 15 ins. in the ground, for $\frac{1}{4}$ sec. cor.. mkd. $\frac{1}{4}$ on N. face; dig pits, 18x18x12 ins. E. and W. of stone, 3 ft. dist.; and raise a mound of earth, $3\frac{1}{2}$ ft. base, $1\frac{1}{2}$ ft. high, N. of cor.
77.00	Leave mesa, bears N. and S. Desc. gradually.
80.00	The cor. of secs. 16, 17, 20, and 21. Land, nearly level. Soil, sandy loam; 2nd rate. No timber. Undergrowth, sage brush. Good grass for grazing. Land, covered with dense undergrowth, 80.00 chs.
	Note ; For reasons already explained I run S. $89^{\circ} 55' W.$, on true line bet. secs. 17 and 20. Over rolling ground; through dense sage brush. Desc.
3.70	Intersect Uintah Indian Reservation bdy.

Subdivision-T.5 S., R.19 E.-Continued.

Chains Set a sandstone, 18x8x5 ins., 12 ins. in the ground, for closing cor. of fract. secs. 17 and 20, mkd. CC on E., U I R on W., with 4 grooves on E. and 3 grooves on S. faces; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, E. of cor. Note: From this cor. the 20th mile cor. on the Reservation bdy. bears as follows:

S.35°W., 8.34 chs. to mile cor. No. 20.

Land, rolling.

Soil, gravelly and sandy; 2nd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Land covered with dense undergrowth, 3.70 chs.

Note: For reasons already explained I run N. C. 3' W., on true line bet. secs. 16 and 17. Over rolling ground; through dense sage brush.

Desc.

5.28 Intersect E. bdy. Uintah Indian Reservation.

Set a sandstone, 16x10x5 ins., 11 ins. in the ground, for closing cor. of fract. secs. 16 and 17, mkd. C C on S., U I R on N., with 4 grooves on E. and 3 grooves on S. faces; and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, S. of cor. From this cor. the 26th mile cor. on the reservation bdy. bears as follows:

S.35°W., 14.60 chs., to mile stone No. 20.

Land, rolling.

Soil, sandy loam; 2nd rate.

No timber.

Undergrowth, sage brush.

Good grass for grazing.

Land covered with dense undergrowth, 5.28 chs.

Subdivision of T.5 S., R.19 E., -Continued.

Chains

General Description.

This township is low broken ridges and hollows in the southern part and along the east tier of sections; and the northern and western parts are composed mostly of rolling mesas. The soil ranges from sandy and clay loam; 2nd rate, to gravelly and rocky ; 3rd and 4th rates.

There is no timber in the township; but sage brush shad-scales and rabbit brush grow in nearly all parts of the township. There is quite a good growth of grass .

The only water in the township is in the southwestern part in a canal which is in course of construction.

There is no mineral in the township.

There are no settlers in the township.

I did not see George E. Adams, Myrtle Ross, Joel R. Warner, Simpson Ross, or Joseph Abegglen, or their improvements.

This township is best adapted for winter grazing on account of the distance to water, but it now supports several bands of wild horses.

July 22, 1906.

John R. Stewart

U.S. Deputy Surveyor.

4

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by
....., United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of
.....
showing the respective capacities in which they acted:

....., *Chainman.*

For final affidavits see book "Z¹⁵" Tp.2 N., R. 20 E., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Arman.*

....., *Arman.*

....., *Flagman.*

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted
....., United States Deputy Surveyor, in surveying all
these parts or portions of the
.....

....., of the

..... meridian, of which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor

General for

For final affidavits see book "Z¹⁵" Tp.2 N., R. 20 E., *Chainman.*

....., *Chainman.*

....., *Moundman.*

....., *Moundman.*

....., *Arman.*

....., *Arman.*

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 1900 }
.....

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800000
800000

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, , United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from United States Surveyor General for , bearing date of the day of , 190 , I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for , the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of

For final affidavit see book "Z¹⁵Tp. 2 N., R. 20 E.

..... of the meridian, in the , which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey.

United States Deputy Surveyor

Subscribed by said , and sworn to before me }
this day of , 190 }

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000000

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, May 4 , 190

The foregoing field notes of the survey of the Subdivisional lines of Township No. 5 South, Range No. 19 East of the Salt Lake Base and Meridian, Utah,

executed by Scott P. Stewart and John R. Stewart under his contract No. 295, dated April 30, 1906; having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Thomas Kelly
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in , has been correctly copied from the original notes on file in this office.

United States Surveyor General